

LG

Europe
Inverter Single Wall Mounted

50Hz/R410A

5RMI0-02A

TOTAL HVAC SOLUTION PROVIDER

ENGINEERING PRODUCT DATA BOOK



Inverter Single-50Hz (R410A)

1. Models Line up.....	6
2. Nomenclature	8
3. Specifications.....	9
4. Dimensional drawings.....	19
5. Wiring diagrams.....	30
6. Refrigerant cycle diagram.....	50
7. Capacity tables.....	59
8. Capacity coefficient factor	72
9. Operation range	75
10. Air flow and temperature distributions(Reference data)	76
11. Sound levels(Reference data).....	80
12. Remote controller	87
13. Installation	94
14. Website Information	148
15. Energy label.....	163

Publication history

Pib.No	Applied model	Notes	Publication in
5RMI0-01A	AS-W0963WB0(G09WL) AS-W1263WB0(G12WL) AS-W2462EF0(P24EL)	Add 14 New Models	January, 2014
5RMI0-02A	AS-W096MMS3(H09AK) AS-W126MMS3(H12AK) AS-W096BNR3(D09AK) AS-W126BNR3(D12AK) AS-W096BWR4(A09WL) AS-W126BWR4(A12WL) AS-W096BRR4(A09RL) AS-W126BRR4(A12RL) AS-W186CRR4(A18RL) US-W096B8F0(P09RL) US-W126B8F0(P12RL) US-W096H4A0(E09EL) US-W126H4A0(E12EL) US-W096HSA0(Z09SL) US-W126HSA0(Z12SL) AS-W096NRR0(A09LL) AS-W126NRR0(A12LL) AS-W1862WR0(D18RL) AS-W2462WR0(D24RL) AS-W1862EF0(P18EL)	Add 14 New Models	February, 2014

Test condition of international standard

CLASSIFICATION			KSC 9306	ISO 5151	AHRI 210/240	AHAM	AS 1861.1	SSA 385
Cooling Capacity	Indoor	DB°C(°F)	27.0	27.0	26.7(80)	26.7(80)	27.0	29.0
		WB°C(°F)	19.5	19.0	19.4(67)	19.4(67)	19.0	19.0
	Outdoor	DB°C(°F)	35.0	35.0	35.0(95)	35.0(95)	35.0	46.0
		WB°C(°F)	24.0	24.0	23.9(75)	23.9(75)	24.0	24.0
Heating Capacity	Indoor	DB°C(°F)	20.0	20.0	21.1(70)	21.1(70)	21.0	21.0
		WB°C(°F)	15.0	15.0	15.6(60)	15.6(60)	15.0	15.5
	Outdoor	DB°C(°F)	7.0	7.0	8.3(47)	8.3(47)	7.0	7.0
		WB°C(°F)	6.0	6.0	6.1(43)	6.1(43)	6.0	6.0
Maximum Cooling Operating	Indoor	DB°C(°F)	32.0	32.0	26.7(80)	32.2(90)	32.0	29.0
		WB°C(°F)	23.0	23.0	19.4(67)	22.8(73)	23.0	19.0
	Outdoor	DB°C(°F)	43.0	43.0	46.1(115)	43.3(110)	43.0	54.0
		WB°C(°F)	26.0	26.0	23.9(75)	25.6(78)	26.0	24.0
Maximum Heating Operating	Indoor	DB°C(°F)	27.0	27.0	26.7(80)	26.7(80)	-	-
		WB°C(°F)	19.0	19.0	19.4(67)	22.8(73)	-	-
	Outdoor	DB°C(°F)	21.0	24.0	23.9(75)	23.9(75)	-	-
		WB°C(°F)	15.0	18.0	18.3(65)	18.3(65)	-	-
Enclosure Sweat / Condensate Disposal	Indoor	DB°C(°F)	27.0	27.0	26.7(80)	26.7(80)	27.0	27.0
		WB°C(°F)	24.0	24.0	23.9(75)	23.9(75)	24.0	24.0
	Outdoor	DB°C(°F)	27.0	27.0	26.7(80)	26.7(80)	27.0	27.0
		WB°C(°F)	24.0	24.0	23.9(75)	23.9(75)	24.0	24.0
Freeze-up/ Low Temperature	Indoor	DB°C(°F)	21.0	21.0	19.4(67)	21.1(70)	21.0	21.0
		WB°C(°F)	15.0	15.0	13.9(57)	15.6(60)	16.0	16.0
	Outdoor	DB°C(°F)	21.0	21.0	19.4(67)	21.1(70)	21.0	21.0
		WB°C(°F)	15.0	15.0	13.9(57)	15.6(60)	16.0	16.0

KS : Korea Standard

AS : Australia Standard

ISO : International Standard Organization

SSA : Saudi Arabian Standard

AHRI : Air-Conditioning, Heating, and Refrigeration Institute

AHAM : Association of Home Appliance Manufacturers

General Description

Split system type air conditioners are known by the category name of Wall Mounted Type systems. The indoor and outdoor unit can be easily installed in a small space and have exceptional cooling capacity. Designed for low-noise operation, these systems ensure a pleasant air conditioned environment.

LG offers various types of units to its customers to satisfy various applications and requirements. The following are the important categories offered by LG :

- 1) Art Cool Units : A new concept of cooling introduced by LG in the field of Air conditioning
- 2) Inverter Units : These units are capable of minimizing the power consumption with unique inverter technology.

Some of the important features of these units are listed below :










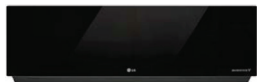

- 1) Long Term Money Saving : By providing the features such as Gold Fin, Auto Clean etc. to maintain the same performance for years.
- 2) Best Comfort : With features such as Sleep Mode,Timer,Auto Restart etc.

The units are available with many standard and optional features which give our customers the choice to select the unit of their own desire.For more information refer to the detailed specification following this description.


LG Electronics Inc.
Air Conditioning & Energy Solution Company


1. Models Line up


1.1 Indoor Unit

Type	Model names			
	kW(kBtu/h)			
	2.5(9)	3.5(12)	5.2(18)	6.2(24)
	ASNW0963WB0 (G09WL)	ASNW1263WB0 (G12WL)		
			ASNW1862EF0(P18EL)	ASNW2462EF0 (P24EL)
	ASNW096MMS3(H09AK)	ASNW126MMS3(H12AK)		
	ASNW096BNR3(D09AK)	ASNW126BNR3(D12AK)		
	ASNW096BWR4(A09WL)	ASNW126BWR4(A12WL)		
	ASNW096BRR4(A09RL)	ASNW126BRR4(A12RL)	ASNW186CRR4(A18RL)	
	USNW096B8F0(P09RL)	USNW126B8F0(P12RL)		
	USNW096H4A0(E09EL)	USNW126H4A0(E12EL)		
	USNW096HSA0(Z09SL)	USNW126HSA0(Z12SL)		
	ASNW096NRR0(A09LL)	ASNW126NRR0(A12LL)		
			ASNW1862WR0(D18RL)	ASNW2462WR0(D24RL)

1.2 Outdoor Unit

Heat pump		ASUW0963WB0(G09WL) ASUW096MUF3(H09AK) ASUW096BUS3(S09AK) ASUW096NRR0(A09LL)	ASUW1263WB0(G12WL) ASUW126MUF3(H12AK) ASUW126BUS3(S12AK) ASUW126NRR0(A12LL)	ASUW1862EF0(P18EL) ASUW1862WR0(D18RL)
Total capacity index of connectable indoor units	kW	2.5	3.5	5.0
	kBtu/h	9	12	18
Power supply		1Ø , 220-240V, 50Hz		
Chassis		<p style="text-align: center;">INVERTER V</p> <p style="text-align: center;">UL2</p> 		

Heat pump		ASUW186CRR4(A18RL)	ASUW2462EF0(P24EL) ASUW2462WR0(D24RL)
Total capacity index of connectable indoor units	kW	5.2	6.8
	kBtu/h	18	24
Power supply		1Ø , 220-240V, 50Hz	
Chassis		<p style="text-align: center;">INVERTER V</p> <p style="text-align: center;">UE</p> 	

Heat pump		USUW096B8F0(P09RL) USUW096H4A0(E09EL)	USUW126B8F0(P12RL) USUW126H4A0(E12EL)
Total capacity index of connectable indoor units	kW	2.5	3.5
	kBtu/h	9	12
Power supply		1Ø , 220-240V, 50Hz	
Chassis		<p style="text-align: center;">INVERTER V</p> <p style="text-align: center;">UA3+</p> 	

2. Nomenclature

• Model Number

A S - W 2 4 6 2 E F 0

Serial Number

Function

F: Mini Ionizer + 2Way

B: 4way

S: Ionizer+Plasma+4way+All in one HAF

R: Ionizer + 4Way

A: Non Plasma + 2Way

Chassis / Look

Chassis	Look	Classification
S2	E	Blowkiss E + White Panel
S3	W	White + Lighting
SM	M	Moving Panel
SB	N	White spray Panel + Silver spray decor
SB	W	Libero Artcool(White)
SB	R	Libero Artcool(Mirror)
SB	8	White spray Panel + Silver spray decor
SC	R	Libero Artcool(Mirror)
SH	4	White Panel (E-look)
SH	S	White Panel (S-look)
SN	R	Artcool(Mirror)
S2	W	White panel(R-look)

Electric Ratings

6: 220-240V, 50Hz

Capacity

Ex) '24' → 24,000 Btu/h Class

Model Type

W: DC Inverter H/P

Supply Method dividing Type

-: Set model

N : Indoor Unit

U : Outdoor Unit

Product type

S: Split

Refrigerant type & code

A: R410, Made in Korea

3. Specifications

Models			AS-W0963WB0(G09WL)	AS-W1263WB0(G12WL)
Heat transfer (source / sink)		-	Air to Air	Air to Air
Type of appliance		-	Cooling/Heating (Inverter heatpump)	Cooling/Heating (Inverter heatpump)
Cooling Capacity		W	2500	3500
Heating Capacity		W	3000	3500
Low Temp. Heating Capacity (-7°C)		kW	3.2	3.7
Power Input	Cooling/Heating	W	690/830	1090/970
Running Current	Cooling/Heating	A	4.0/4.0	5.0/4.5
Starting Current	Cooling/Heating	A	4.0/4.0	5.0/4.5
Max Current	Cooling/Heating	A	6.0/7.0	6.0/7.0
SEER		W/W	5.7	5.6
SCOP		W/W	3.8	3.8
Energy efficiency class*	Cooling/Heating	-	A+/A	A+/A
*A(more efficient),				
G(less efficient)				
Annual energy consumption	Cooling/Heating	kWh	110/1,100	220/1,224
Power Supply		Ø / V / Hz	1 / 220~240 / 50	1 / 220~240 / 50
Air Flow Rate	Indoor,Max	m³/min	10.5	10.5
	Outdoor,Max	m³/min	33	33
Moisture Removal		kg/h	1.2	1.5
Sound Pressure Level	Indoor,H/M/L(Cooling)	dB(A)+3	39/34/29	39/34/29
	Indoor,H/M/L(Heating)	dB(A)+3	39/35/32	39/35/32
	Outdoor,Max	dB(A)+3	45	45
Sound Power Level	Indoor,Max	dB(A)	60	60
	Outdoor,Max	dB(A)	65	65
Refrigerant & Charge (at 7.5 m)		g	R410A, 1,000	R410A, 1,000
Additional Refrigerant charge		g/m	20	20
Compressor	Model	-	GA102MFB	GA102MFB
	Motor Type	-	Brushless DC Motor	Brushless DC Motor
	O.L.P. name	-	-	-
Fan(Indoor)	Type	-	Turbo Fan	Turbo Fan
	Motor Type	-	BLDC	BLDC
	Motor Output	W	32.7	32.7
Fan(Outdoor)	Type	-	Propeller, Fan	Propeller, Fan
	Motor Type	-	BLDC	BLDC
	Motor Output	W	43	43
Circuit Breaker		A	15	15
Power Supply Cable		N x mm²	3*1.0	3*1.0
Power and Transmission Cable N x mm²		N x mm²	4*1.0	4*1.0
Piping Connexions	Liquid Side	mm(in)	6.35 (1/4)	6.35 (1/4)
	Gas Side	mm(in)	9.52 (3/8)	9.52 (3/8)
Drain Hose (O.D, I.D)		mm(in)	21.5,16.0 (0.85,0.63)	21.5,16.0 (0.85,0.63)
Dimensions	Indoor (WxHxD)	mm	645*645*121	645*645*121
	Outdoor (WxHxD)	mm	770*545*288	770*545*288
Net Weight	Indoor	kg(lbs)	18 (39.7)	18 (39.7)
	Outdoor	kg(lbs)	34 (75)	34 (75)
Operation Range	Cooling(Outdoor)	°C(°F)	-10~48 (14~118.4)	-10~48 (14~118.4)
	Heating(Outdoor)	°C(°F)	-15~24 (5~75.2)	-15~24 (5~75.2)
Piping Length (Min / Max)		m(ft)	3(9.8) / 15 (49.2)	3(9.8) / 15 (49.2)
Max Elevation Difference		m(ft)	10 (32.8)	10 (32.8)

Note:

- Capacities are based on the following conditions:
 Cooling: - Indoor Temperature 27°C DB/19°C WB
 - Outdoor Temperature 35°C DB/24°C WB
 Heating: - Indoor Temperature 20°C DB/15°C WB
 - Outdoor Temperature 7°C DB/6°C WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Wiring cable size must comply with the applicable local and national code.
- The specification may be subject to change without prior notice for purpose of improvement.

Model		AS-W2462EF0(P24EL) AS-W2462WR0(D24RL)	
Heat transfer (source / sink)		-	Air to Air
Type of appliance		-	Cooling/Heating (Inverter heatpump)
Cooling Capacity		kW	6.8
Heating Capacity		kW	8.0
Low Temp. Heating Capacity (-7°C)		kW	4.85
Power Input	Cooling/Heating	W	2,193 / 2,285
Running Current	Cooling/Heating	A	10.0 / 10.2
Starting Current	Cooling/Heating	A	10.0 / 10.2
Max Current	Cooling/Heating	A	10.6 / 11.0
SEER		W/W	6.1
SCOP		W/W	3.8
Energy efficiency class*	Cooling/Heating	-	A++ / A
*A(more efficient),G(less efficient)			
Annual energy consumption		kWh	391 / 2,027
Power Supply		Ø / V / Hz	1 / 220-240 / 50
Air Flow Rate	Indoor,Max	m³/min	24
	Outdoor,Max	m³/min	50
Moisture Removal		l/h	2.5
Sound Pressure Level	Indoor,H/M/L/Sleep*	dB(A)±3	45 / 40 / 35 / 29
	Outdoor,Max	dB(A)±3	54
Sound Power Level	Indoor,Max	dB(A)±3	65
	Outdoor,Max	dB(A)±3	70
Refrigerant & Charge (at 7.5 m)		g	R410A, 1,350
Additional Refrigerant charge		g/m	35
Compressor	Model	-	GKT176MFA
	Motor Type	-	Brushless DC Motor
	O.L.P. name	-	-
Fan(Indoor)	Type	-	Cross Flow Fan
	Motor Type	-	BLDC
	Motor Output	W	76
Fan(Outdoor)	Type	-	Propeller, Fan
	Motor Type	-	BLDC
	Motor Output	W	85
Circuit Breaker		A	25
Power Supply Cable		N x mm²	3*2.5
Power and Transmission Cable N x mm²		N x mm²	4*1.0
Piping Connections	Liquid Side	mm	6.35
	Gas Side	mm	15.88
Drain Hose(O.D, I.D)		mm	21.5, 16.0
Dimensions	Indoor (WxHxD)	mm	1090*330*248
	Outdoor (WxHxD)	mm	870*655*320
Net Weight	Indoor	kg	14
	Outdoor	kg	46
Operation Range	Cooling(Outdoor)	°C	-10 ~ 48
	Heating(Outdoor)	°C	-10 ~ 24
Piping Length (Min / Max)		m	- / 30
Max Elevation Difference		m	15

Note:

O : Applied, - : No relation

* For circuit breaker rating, please conform to local standards wherever necessary.

MODELS			AS-W096MMS3(H09AK)	AS-W126MMS3(H12AK)
Cooling Capacity		kW	0.30/2.52/3.80	0.30/3.50/4.04
Heating Capacity		kW	0.30/3.20/6.60	0.30/4.00/6.80
Power Input	Cooling/Heating	W	463/570	780/755
Running Current	Cooling/Heating	A	2.3/2.9	3.5/3.8
Starting Current	Cooling/Heating	A	2.3/2.9	3.5/3.8
EER		W/W	5.4	4.6
SEER		W/W	9.1	8.9
COP		W/W	5.6	5.3
SCOP		W/W	5.2	25.1
Power Supply		Ø / V / Hz	1Ø 220~240V, 50Hz	1Ø 220~240V, 50Hz
Power Factor		%	-	-
Air Flow Rate	Indoor,H/M/L, Cooling (Heating)	m³/min	14.5/11.5/8.5 (16.5/12.5/9.5)	14.5/11.5/8.5 (16.5/12.5/9.5)
	Outdoor,Max	m³/min	33	33
Moisture Removal		Kg/h	-	-
Sound Level	Indoor,H/M/L/S-Low, Cooling (Heating)	dB(A)+3	39/33/25/17 (39/33/25/-)	39/33/25/17 (39/33/25/-)
	Outdoor,Max	dB(A)+3	45	45
Refrigerant & Charge(at 7.5m)		g	R410A, 1,150	R410A, 1,150
Additional Refrigerant Charge		g/m	20	20
Compressor	Type		2P Rotary	2P Rotary
	Model		DA128A1FA-20F	DA128A1FA-20F
	Motor Type		Hermetic Motor Compressor	Hermetic Motor Compressor
	Oil Type		VG74	VG74
	Oil Charge	cc	450	450
	O.L.P Name		-	-
Fan(Indoor)	Type		Cross Flow Fan	Cross Flow Fan
	Motor Type		BLDC	BLDC
	Motor Output	W	30	30
Fan(outdoor)	Type		Propeller, Fan	Propeller, Fan
	Motor Type		BLDC	BLDC
	Motor Output	W	84	84
Circuit Breaker		A	15	15
Power Supply Cable		No.*mm²	3*1.0	3*1.0
Power and Transmission Cable		No.*mm²+No.*mm²	4*1.0 (Including Earth)	4*1.0 (Including Earth)
Piping	Liquid Side	mm(in)	6.35(1/4)	6.35(1/4)
Connections	Gas Side	mm(in)	9.52(3/8)	9.52(3/8)
Drain Hose	O.D , I.D	mm(in)	21.5,16.0(0.85,0.63)	21.5,16.0(0.85,0.63)
Dimension	Indoor(W*H*D)	mm	875*295*235	875*295*235
		inch	34.4*11.6*9.25	34.4*11.6*9.25
	Outdoor(W*H*D)	mm	770*545*288	770*545*288
		inch	30.3*21.4*11.3	30.3*21.4*11.3
Net Weight	Indoor	kg(lbs)	11.5 (25.35)	11.5 (25.35)
	Outdoor	kg(lbs)	35 (72.75)	35 (72.75)
Operation Range	Cooling(Indoor)	°C(°F)	18 ~ 32 (64.4 ~ 89.6)	18 ~ 32 (64.4 ~ 89.6)
	Cooling(Outdoor)	°C(°F)	-10 ~ 48 (14 ~ 118.4)	-10 ~ 48 (14 ~ 118.4)
	Heating(Indoor)	°C(°F)	10 ~ 30 (50 ~ 86)	10 ~ 30 (50 ~ 86)
	Heating(Outdoor)	°C(°F)	-15 ~ 24 (5 ~ 75.2)	-15 ~ 24 (5 ~ 75.2)
Max. Piping Length		m(ft)	20(65.6)	20(65.6)
Max. Elevation Difference		m(ft)	10(32.8)	10(32.8)
Tool Code(Chassis)	Indoor + Outdoor		SM + UL2	SM + UL2
Functions	Temperature Control		Thermistor	Thermistor
	Plasma Filter		○	○
	Prefilter(washable/anti-fungus)		○	○
	Anti Allergy Filter		○	○
	Deodorizer Filter(Triple Filter)		○	○
	H1N1 Filter		○	○
	Auto Clean		○	○
	CHAOS Wind(Auto Wind)		○	○
	Steps, Fan/Cool/Heat		5/6/6	5/6/6
	Airflow Direction Control(up& Down)		Auto	Auto
	Airflow Direction Control(left & right)		Auto	Auto
	Remote Controller Type		Wireless LCD	Wireless LCD
	Setting Temperature Range	Cooling	18°C ~ 30°C	18°C ~ 30°C
		Heating	16°C ~ 30°C	16°C ~ 30°C
	Auto Operation (Micom Control)		-	-
	Auto Changeover (Micom Control)		○	○
	Self Diagnosis		○	○
	Timer		24h, On/Off	24h, On/Off
	Sleep Operation		○	○
	Soft Dry Operation		○	○
	Restart Delay(minute)		3	3
	Device Control(Defrost)		○	○
	Hot Start		○	○
	Jet Cool		○	○
	Low Ambient Operation		○	○
	Special Function		-	-

Note:

○ : Applied, - : No relation

* For circuit breaker rating, please conform to local standards wherever necessary.

* Some of functions are slightly different depending upon models.

* The specification may be subject to change without notice for purpose of improvement.

Models			AS-W096BNR3(D09AK)	AS-W126BNR3(D12AK)
Heat transfer (source / sink)		-	Air to Air	Air to Air
Type of appliance		-	Cooling/Heating (Inverter heatpump)	Cooling/Heating (Inverter heatpump)
Cooling Capacity		kW	2.5	3.5
Heating Capacity		kW	3.2	4.00
Low Temp. Heating Capacity (-7°C)		kW	3.2	3.80
Power Input	Cooling/Heating	W	550/700	880/960
Running Current	Cooling/Heating	A	2.60/3.20	4.1/4.4
Starting Current	Cooling/Heating	A	2.60/3.20	4.1/4.4
Max Current	Cooling/Heating	A	6.0/7.0	6.0/7.0
SEER		W/W	6.2	6.1
SCOP		W/W	4.0	4.0
Energy efficiency class*	Cooling/Heating	-	A++/A+	A++/A+
*A(more efficient),				
G(less efficient)				
Annual energy consumption	Cooling/Heating	kWh	142/1,120	201/1,400
Power Supply		Ø / V / Hz	1Ø / 220~240V / 50	1Ø / 220~240V / 50
Air Flow Rate	Indoor,Max	m³/min	12.0	12.0
	Outdoor,Max	m³/min	33	33
Moisture Removal		l/h	1.1	1.3
Sound Pressure Level	Indoor,H/M/L/Sleep*	dB(A)±3	38/33/23/19	39/33/23/19
	Outdoor,Max	dB(A)±3	45	45
Sound Power Level	Indoor,Max	dB(A)±3	54	54
	Outdoor,Max	dB(A)±3	62	62
Refrigerant & Charge (at 7.5 m)		g	R410A, 1,000	R410A, 1,000
Additional Refrigerant charge		g/m	20	20
Compressor	Model	-	GA102MFB	GA102MFB
	Motor Type	-	Brushless DC Motor	Brushless DC Motor
	O.L.P. name	-	-	-
Fan(Indoor)	Type	-	Cross Flow Fan	Cross Flow Fan
	Motor Type	-	BLDC	BLDC
	Motor Output	W	20	20
Fan(Outdoor)	Type	-	Propeller, Fan	Propeller, Fan
	Motor Type	-	BLDC	BLDC
	Motor Output	W	43	43
Circuit Breaker		A	15	15
Power Supply Cable		N x mm²	3*1.0	3*1.0
Power and Transmission Cable N x mm²		N x mm²	4*1.0	4*1.0
Piping Connexions	Liquid Side	mm	6.35	6.35
	Gas Side	mm	9.52	9.52
Drain Hose		mm	21.5,16.0	21.5,16.0
Dimensions	Indoor (WxHxD)	mm	885*285*210	885*285*210
	Outdoor (WxHxD)	mm	770*545*288	770*545*288
Net Weight	Indoor	kg	11	11
	Outdoor	kg	34	34
Operation Range	Cooling(Outdoor)	°C	-10 ~ 48	-10 ~ 48
	Heating(Outdoor)	°C	-15 ~ 24	-15 ~ 24
Piping Length (Min / Max)		m	2/20	2/20
Max Elevation Difference		m	10	10

Note:

1. Capacities are based on the following conditions:

- Cooling: - Indoor Temperature 27°C DB/19°C WB
- Outdoor Temperature 35°C DB/24°C WB
- Heating: - Indoor Temperature 20°C DB/15°C WB
- Outdoor Temperature 7°C DB/6°C WB

Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Wiring cable size must comply with the applicable local and national code.

3. The specification may be subject to change without prior notice for purpose of improvement.

Conversion Formula

kW = Btu/h x 0.0002931

cfm = CMM x 35.3

Model Spec.			AS-W096BWR4(A09WL) AS-W096BRR4(A09RL)	AS-W126BWR4(A12WL) AS-W126BRR4(A12RL)
Heat transfer (source / sink)		-	Air to Air	Air to Air
Type of appliance		-	Cooling/Heating (Inverter type heatpump)	Cooling/Heating (Inverter type heatpump)
Cooling Capacity		kW	2.5	3.5
Heating Capacity		kW	3.2	3.8
Low Temp. Heating Capacity (-7°C)		kW	3.0	3.6
Power Input	Cooling/Heating	W	670/840	1080/1000
Running Current	Cooling/Heating	A	3/3.7	4.7/4.4
Starting Current	Cooling/Heating	A	3/3.7	4.7/4.4
Max Current	Cooling/Heating	A	6.5/6	6.5/6
SEER		W/W	6.2	6.1
SCOP		W/W	3.8	3.8
Energy efficiency class*				
*A(more efficient), G(less efficient)	Cooling/Heating	-	A++/A	A++/A
Annual energy consumption	Cooling/Heating	kWh	141/1179	201/1400
Power Supply		Ø / V / Hz	1 / 220~240 / 50	1 / 220~240 / 50
Air Flow Rate	Indoor,Max	m³/min	12.0	12.0
	Outdoor,Max	m³/min	27	27
Moisture Removal		l/h	1.1	1.3
Sound Pressure Level	Indoor,H/M/L/Sleep*	dB(A)±3	39/33/23/19	39/33/23/19
	Outdoor,Max	dB(A)±3	47	47
Sound Power Level	Indoor,Max	dB(A)±3	58	58
	Outdoor,Max	dB(A)±3	65	65
Refrigerant & Charge (at 7.5 m)		g	R410A, 900	R410A, 900
Additional Refrigerant charge		g/m	20	20
Compressor	Model	-	GA102MD	GA102MD
	Motor Type	-	BLDC	BLDC
	O.L.P. name	-	-	-
Fan(Indoor)	Type	-	Cross Flow Fan	Cross Flow Fan
	Motor Type	-	BLDC	BLDC
	Motor Output	W	20	20
Fan(Outdoor)	Type	-	Propeller, Fan	Propeller, Fan
	Motor Type	-	BLDC	BLDC
	Motor Output	W	43	43
Circuit Breaker		A	15	15
Power Supply Cable		Nxmm²	3*1.0	3*1.0
Power and Transmission Cable Nxmm²		Nxmm²	4*1.0 (Including Earth)	4*1.0 (Including Earth)
Piping Connection	Liquid Side	mm	6.35	6.35
	Gas Side	mm	9.52	9.52
Drain Hose		mm	21.5	21.5
Dimensions	Indoor (WxHxD)	mm	885*285*205	885*285*205
	Outdoor (WxHxD)	mm	717*483*230	717*483*230
Net Weight	Indoor	kg	10.2	10.2
	Outdoor	kg	28	28
Operation Range	Cooling(Outdoor)	°C	-10 ~ 48	-10 ~ 48
	Heating(Outdoor)	°C	-10 ~ 24	-10 ~ 24
Piping Length (Min / Max)		m	3/15	3/15
Max Elevation Difference		m	7	7

Note:

1. Capacities are based on the following conditions:

Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB

- Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB

Heating: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB

- Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB

Piping Length - Interconnecting Piping Length 7.5m

- Level Difference of Zero

2. Wiring cable size must comply with the applicable local and national code.

3. The specification may be subject to change without prior notice for purpose of improvement.

Conversion Formula

kW = Btu/h x 0.0002931

cfm = CMM x 35.3

Models		AS-W186CRR4(A18RL)	
Heat transfer (source / sink)		-	Air to Air
Type of appliance		-	Cooling/Heating (Inverter heatpump)
Cooling Capacity		kW	5.2
Heating Capacity		kW	6.3
Low Temp. Heating Capacity (-7°C)		kW	5.4
Power Input	Cooling/Heating	W	1,500 / 1,650
Running Current	Cooling/Heating	A	6.6 / 7.3
Starting Current	Cooling/Heating	A	6.6 / 7.3
Max Current	Cooling/Heating	A	7.8 / 9.4
SEER		W/W	6.1
SCOP		W/W	3.8
Energy efficiency class*	Cooling/Heating	-	A++/A
*A(more efficient),			
G(less efficient)			
Annual energy consumption	Cooling/Heating	kWh	299/1916
Power Supply		Ø / V / Hz	1Ø / 220~240V / 50
Air Flow Rate	Indoor,Max	m³/min	19
	Outdoor,Max	m³/min	50
Moisture Removal		l/h	2
Sound Pressure Level	Indoor,H/M/L/Sleep*	dB(A)±3	42 / 40 / 35 / 29
	Outdoor,Max	dB(A)±3	51
Sound Power Level	Indoor,Max	dB(A)±3	60
	Outdoor,Max	dB(A)±3	65
Refrigerant & Charge (at 7.5 m)		g	1,350
Additional Refrigerant charge		g/m	20
Compressor	Model	-	GKT141MBA
	Motor Type	-	Brushless DC Motor
	O.L.P. name	-	-
Fan(Indoor)	Type	-	Cross Flow Fan
	Motor Type	-	BLDC
	Motor Output	W	30
Fan(Outdoor)	Type	-	Propeller, Fan
	Motor Type	-	BLDC
	Motor Output	W	85
Circuit Breaker		A	20
Power Supply Cable		N x mm²	3*1.5
Power and Transmission Cable N x mm²		N x mm²	4*1.0
Piping Connexions	Liquid Side	mm	6.35
	Gas Side	mm	12.7
Drain Hose		mm	21.5
Dimensions	Indoor (WxHxD)	mm	1030*325*245
	Outdoor (WxHxD)	mm	870*655*320
Net Weight	Indoor	kg	15.5
	Outdoor	kg	44
Operation Range	Cooling(Outdoor)	°C	-10 ~ 48
	Heating(Outdoor)	°C	-15 ~ 24
Piping Length (Min / Max)		m	- / 20
Max Elevation Difference		m	10

Note :

- Capacities are based on the following conditions :
 Cooling : - Indoor Temperature 27°C DB/19°C WB
 - Outdoor Temperature 35°C DB/24°C WB
 Heating : - Indoor Temperature 20°C DB/15°C WB
 - Outdoor Temperature 7°C DB/6°C WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Wiring cable size must comply with the applicable local and national code.
- The specification may be subject to change without prior notice for purpose of improvement

Model Spec.			US-W096B8F0(P09RL)	US-W126B8F0(P12RL)
Heat transfer (source / sink)		-	Air to Air	Air to Air
Type of appliance		-	Cooling/Heating (Invertype heatpump)	Cooling/Heating (Invertype heatpump)
Cooling Capacity		kW	2.5	3.5
Heating Capacity		kW	3.2	3.8
Low Temp. Heating Capacity (-7°C)		kW	3.0	3.6
Power Input	Cooling/Heating	W	670/840	1080/1000
Running Current	Cooling/Heating	A	3/3.7	4.7/4.4
Starting Current	Cooling/Heating	A	3/3.7	4.7/4.4
Max Current	Cooling/Heating	A	6.5/6	6.5/6
SEER		W/W	6.2	6.1
SCOP		W/W	3.8	3.8
Energy efficiency class*	Cooling/Heating	-	A++/A	A++/A
*A(more efficient), G(less efficient)				
Annual energy consumption	Cooling/Heating	kWh	141/1179	201/1400
Power Supply		Ø / V / Hz	1 / 220~240 / 50	1 / 220~240 / 50
Air Flow Rate	Indoor,Max	m³/min	12.0	12.0
	Outdoor,Max	m³/min	27	27
Moisture Removal		l/h	1.1	1.3
Sound Pressure Level	Indoor,H/M/L/Sleep*	dB(A)±3	39/33/23/19	39/33/23/19
	Outdoor,Max	dB(A)±3	47	47
Sound Power Level	Indoor,Max	dB(A)±3	58	58
	Outdoor,Max	dB(A)±3	65	65
Refrigerant & Charge (at 7.5 m)		g	R410A, 900	R410A, 900
Additional Refrigerant charge		g/m	20	20
Compressor	Model	-	GA102MD	GA102MD
	Motor Type	-	BLDC	BLDC
	O.L.P. name	-	-	-
Fan(Indoor)	Type	-	Cross Flow Fan	Cross Flow Fan
	Motor Type	-	BLDC	BLDC
	Motor Output	W	20	20
Fan(Outdoor)	Type	-	Propeller, Fan	Propeller, Fan
	Motor Type	-	BLDC	BLDC
	Motor Output	W	43	43
Circuit Breaker		A	15	15
Power Supply Cable		Nxmm²	3*1.0	3*1.0
Power and Transmission Cable Nxmm²		Nxmm²	4*0.75 (Including Earth)	4*0.75 (Including Earth)
Piping Connection	Liquid Side	mm	6.35	6.35
	Gas Side	mm	9.52	9.52
Drain Hose		mm	21.5	21.5
Dimensions	Indoor (WxHxD)	mm	885*285*210	885*285*210
	Outdoor (WxHxD)	mm	717*483*230	717*483*230
Net Weight	Indoor	kg	9	9
	Outdoor	kg	28	28
Operation Range	Cooling(Outdoor)	°C	-10 ~ 48	-10 ~ 48
	Heating(Outdoor)	°C	-10 ~ 24	-10 ~ 24
Piping Length (Min / Max)		m	3/15	3/15
Max Elevation Difference		m	7	7

Note:

- Capacities are based on the following conditions:
 Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB
 - Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB
 Heating: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB
 - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Wiring cable size must comply with the applicable local and national code.
- The specification may be subject to change without prior notice for purpose of improvement.

Conversion Formula

$$\text{kW} = \text{Btu/h} \times 0.0002931$$

$$\text{cfm} = \text{CMM} \times 35.3$$

Model Spec.			US-W096H4A0(E09EL) US-W096HSA0(Z09SL)	US-W126H4A0(E12EL) US-W126HSA0(Z12SL)
Heat transfer (source / sink)		-	Air to Air	Air to Air
Type of appliance		-	Cooling/Heating (Invertype heatpump)	Cooling/Heating (Invertype heatpump)
Cooling Capacity		kW	2.5	3.5
Heating Capacity		kW	3.2	3.8
Low Temp. Heating Capacity (-7°C)		kW	3.0	3.6
Power Input	Cooling/Heating	W	690/860	1120/1040
Running Current	Cooling/Heating	A	3.1/3.8	4.9/4.6
Starting Current	Cooling/Heating	A	3.1/3.8	4.9/4.6
Max Current	Cooling/Heating	A	6.5/6	6.5/6
SEER		W/W	5.9	5.8
SCOP		W/W	3.8	3.8
Energy efficiency class*	Cooling/Heating	-	A+/A	A+/A
*A(more efficient), G(less efficient)				
Annual energy consumption	Cooling/Heating	kWh	149/1179	211/1400
Power Supply		Ø / V / Hz	1 / 220~240 / 50	1 / 220~240 / 50
Air Flow Rate	Indoor,Max	m³/min	12.0	12.0
	Outdoor,Max	m³/min	27	27
Moisture Removal		l/h	1.1	1.3
Sound Pressure Level	Indoor,H/M/L/Sleep*	dB(A)±3	39/33/25/20	39/33/25/20
	Outdoor,Max	dB(A)±3	47	47
Sound Power Level	Indoor,Max	dB(A)±3	58	58
	Outdoor,Max	dB(A)±3	65	65
Refrigerant & Charge (at 7.5 m)		g	R410A, 900	R410A, 900
Additional Refrigerant charge		g/m	20	20
Compressor	Model	-	GA102MD	GA102MD
	Motor Type	-	BLDC	BLDC
	O.L.P. name	-	-	-
Fan(Indoor)	Type	-	Cross Flow Fan	Cross Flow Fan
	Motor Type	-	BLDC	BLDC
	Motor Output	W	20	20
Fan(Outdoor)	Type	-	Propeller, Fan	Propeller, Fan
	Motor Type	-	BLDC	BLDC
	Motor Output	W	43	43
Circuit Breaker		A	15	15
Power Supply Cable		Nxmm²	3*1.0	3*1.0
Power and Transmission Cable Nxmm²		Nxmm²	4*0.75 (Including Earth)	4*0.75 (Including Earth)
Piping Connection	Liquid Side	mm	6.35	6.35
	Gas Side	mm	9.52	9.52
Drain Hose		mm	21.5	21.5
Dimensions	Indoor (WxHxD)	mm	798*292*214	798*292*214
	Outdoor (WxHxD)	mm	717*483*230	717*483*230
Net Weight	Indoor	kg	8.5	8.5
	Outdoor	kg	28	28
Operation Range	Cooling(Outdoor)	°C	-10 ~ 48	-10 ~ 48
	Heating(Outdoor)	°C	-10 ~ 24	-10 ~ 24
Piping Length (Min / Max)		m	3/15	3/15
Max Elevation Difference		m	7	7

Note:

1. Capacities are based on the following conditions:

- Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB
 - Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB
 Heating: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB
 - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Wiring cable size must comply with the applicable local and national code.

3. The specification may be subject to change without prior notice for purpose of improvement.

Conversion Formula

$$\text{kW} = \text{Btu/h} \times 0.0002931$$

$$\text{cfm} = \text{CMM} \times 35.3$$

Model			AS-W096NRR0(A09LL)	AS-W126NRR0(A12LL)
Cooling Capacity		W	2500	3500
Heating Capacity		W	3200	4000
Power Input	Cooling/Heating	W	580 / 780	940 / 1000
Running Current	Cooling/Heating	A	3.5 / 4.0	4.1 / 4.4
Starting Current	Cooling/Heating	A	3.5 / 4.0	4.1 / 4.4
Max Current	Cooling/Heating	A	6.0 / 7.0	6.0 / 7.0
SEER		W/W	6.7	6.4
SCOP		W/W	4.0	4.0
Energy efficiency class*	Cooling/Heating	-	A++/A+	A++/A+
*A(more efficient)				
G(less efficient)				
Annual energy consumption				
Power Supply		Ø / V / Hz	1 / 220~240 / 50	1 / 220~240 / 50
Air Flow Rate	Indoor, Max	m³/min(CFM)	14(494)	14(494)
	Outdoor,Max	m³/min(CFM)	33(1165)	33(1165)
Moisture Removal		kg/h	1.1	1.3
Sound Pressure Level	Indoor,H/M/L/S-Low	dB(A)+3	Cooling : 39/33/24/19 Heating : 39/33/24/-	Cooling : 39/33/24/19 Heating : 39/33/24/-
	Outdoor,Max	dB(A)+3	45	45
Sound Power Level	Indoor,Max	dB(A)	60	60
	Outdoor,Max	dB(A)	65	65
Refrigerant & Charge(at 7.5m)		g	R410A, 1000	R410A, 1000
Additional Refrigerant Charge		g/m	20	20
Compressor	Type		1P Rotary	1P Rotary
	Model		GA102MFB	GA102MFB
	Motor Type		Brushless DC Motor	Brushless DC Motor
	Oil Type		FVC68D	FVC68D
	Oil Charge	cc	310	310
	O.L.P Name		-	-
Fan(Indoor)	Type		Cross Flow Fan	Cross Flow Fan
	Motor Type		BLDC	BLDC
	Motor Output	W	30	30
Fan(outdoor)	Type		Propeller, Fan	Propeller, Fan
	Motor Type		BLDC	BLDC
	Motor Output	W	43	43
Circuit Breaker		A	15	15
Power Supply Cable		No.*mm²	3*1.0	3*1.0
Power and Transmission Cable		No.*mm²	4*1.0	4*1.0
Piping Connections	Liquid Side	mm(in)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(in)	9.52(3/8)	9.52(3/8)
Drain Hose (O.D/I.D)		mm(in)	21.5,16.0(0.85,0.63)	21.5,16.0(0.85,0.63)
Dimension	Indoor(W*H*D)	mm(in)	957*305*177 (37.6*12.0*6.9)	957*305*177 (37.6*12.0*6.9)
	Outdoor(W*H*D)	mm(in)	770*545*288 (30.3*21.3*11.3)	770*545*288 (30.3*21.3*11.3)
Net Weight	Indoor	kg(lbs)	11.5(25.3)	11.5(25.3)
	Outdoor	kg(lbs)	34(75)	34(75)
Gross Weight	Indoor	kg(lbs)	13.5(29.7)	13.5(29.7)
	Outdoor	kg(lbs)	35.8 (78.9)	35.8 (78.9)
Operation Range	Cooling(Outdoor)	°C(°F)	-10 ~ 48 (14 ~ 118.4)	-10 ~ 48 (14 ~ 118.4)
	Heating(Outdoor)	°C(°F)	-15 ~ 24 (5 ~ 75.2)	-15 ~ 24 (5 ~ 75.2)
Max. Piping Length		m(ft)	20 (65.6)	20 (65.6)
Max. Elevation Difference		m(ft)	10(32.8)	10(32.8)
Tool Code(Chassis)	Indoor + Outdoor		SN + UL2	SN + UL2

Note:

1. Capacities are based on the following conditions:

Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB

- Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB

Heating: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB

- Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB

Piping Length - Interconnecting Piping Length 7.5m

- Level Difference of Zero

2. Wiring cable size must comply with the applicable local and national code.

3. The specification may be subject to change without prior notice for purpose of improvement.

4. Filters are optional in some specific areas.

5. For Circuit Breaker Rating, please conform to local standards whenever necessary.

Conversion Formula

kW = Btu/h x 0.0002931

cfm = CMM x 35.3

Models			AS-W1862WR0(D18RL) AS-W1862EF0(P18EL)
Heat transfer (source / sink)	-	-	Air to Air
Type of appliance	-	-	Cooling/Heating (Inverter heatpump)
Cooling Capacity	kW	-	5.0
Heating Capacity	kW	-	5.8
Low Temp. Heating Capacity (-7°C)	kW	-	3.8
Power Input	Cooling/Heating	W	1,562 / 1,611
Running Current	Cooling/Heating	A	7.2 / 7.5
Starting Current	Cooling/Heating	A	7.2 / 7.5
Max Current	Cooling/Heating	A	9.0 / 9.5
SEER	-	W/W	6.1
SCOP	-	W/W	4.0
Energy efficiency class*	Cooling/Heating	-	A++ / A+
*A(more efficient),			
G(less efficient)			
Annual energy consumption	Cooling/Heating	kWh	287 / 1,435
Power Supply	-	Ø / V / Hz	1 / 220-240 / 50
Air Flow Rate	Indoor,Max	m³/min	19
	Outdoor,Max	m³/min	32
Moisture Removal	-	l/h	1.8
Sound Pressure Level	Indoor,H/M/L/Sleep*	dB(A)±3	42 / 40 / 35 / 29
	Outdoor,Max	dB(A)±3	51
Sound Power Level	Indoor,Max	dB(A)±3	60
	Outdoor,Max	dB(A)±3	65
Refrigerant & Charge (at 7.5 m)	-	g	R410A, 1,150
Additional Refrigerant charge	-	g/m	20
Compressor	Model	-	5RS132XCA21
	Motor Type	-	Brushless DC Motor
	O.L.P. name	-	-
Fan(Indoor)	Type	-	Cross Flow Fan
	Motor Type	-	BLDC
	Motor Output	W	20
Fan(Outdoor)	Type	-	Propeller, Fan
	Motor Type	-	BLDC
	Motor Output	W	43
Circuit Breaker	-	A	20
Power Supply Cable	-	N x mm²	3*1.5
Power and Transmission Cable N x mm²	-	N x mm²	4*1.0
Piping Connections	Liquid Side	mm	6.35
	Gas Side	mm	12.7
Drain Hose(O.D, I.D)	-	mm	21.5, 16.0
Dimensions	Indoor (WxHxD)	mm	1090*330*248
	Outdoor (WxHxD)	mm	770*545*288
Net Weight	Indoor	kg	14.5
	Outdoor	kg	34
Operation Range	Cooling(Outdoor)	°C	-10 ~ 48
	Heating(Outdoor)	°C	-10 ~ 24
Piping Length (Min / Max)	-	m	- / 20
Max Elevation Difference	-	m	10

Note :

1. Capacities are based on the following conditions :

Cooling : - Indoor Temperature 27°C DB/19°C WB
- Outdoor Temperature 35°C DB/24°C WBHeating: - Indoor Temperature 20°C DB/15°C WB
- Outdoor Temperature 7°C DB/6°C WBPiping Length - Interconnecting Piping Length 7.5m
- Level Difference of Zero

2. Wiring cable size must comply with the applicable local and national code.

3. The specification may be subject to change without prior notice for purpose of improvement

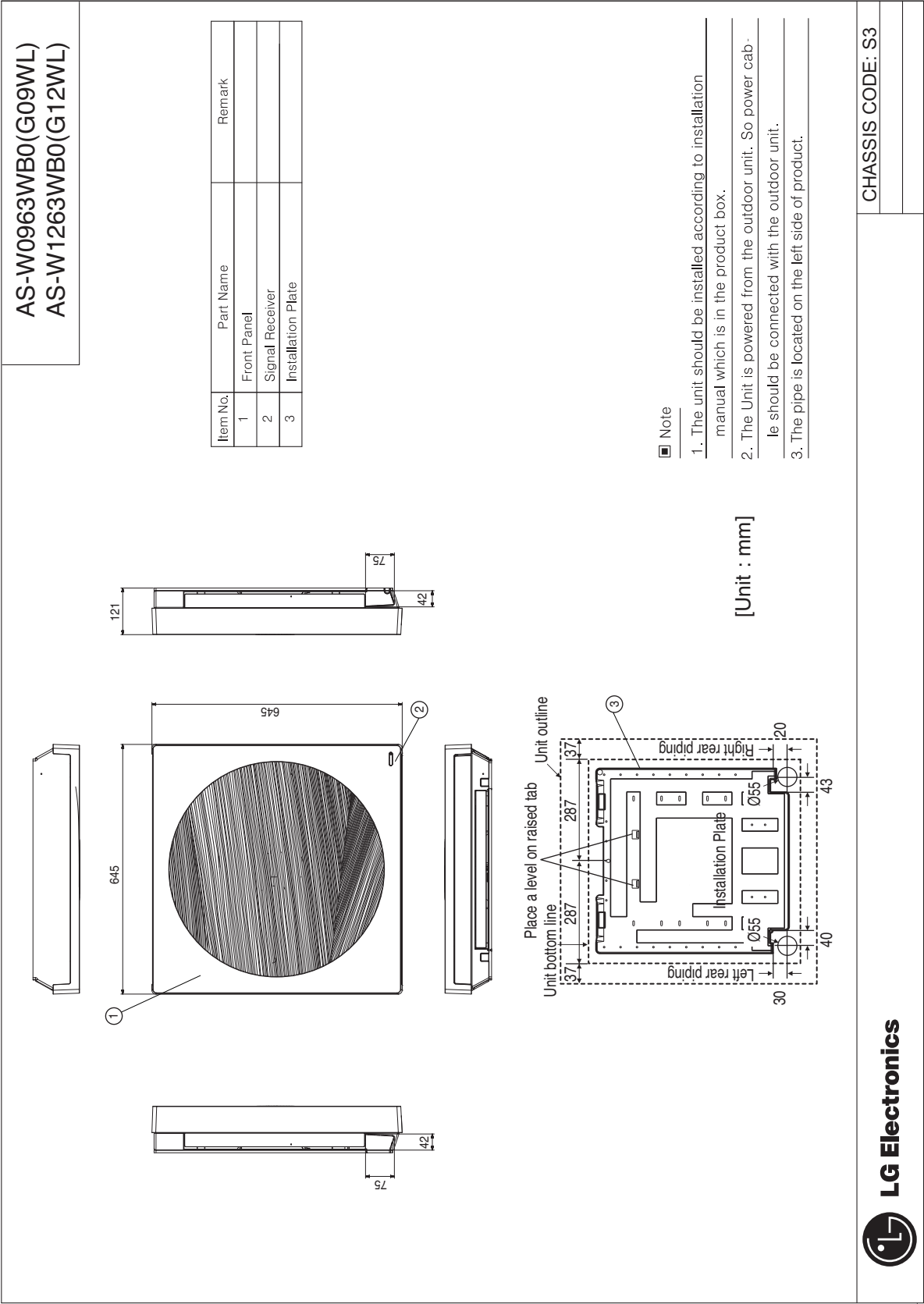
Conversion Formula

kW = Btu/h x 0.0002931

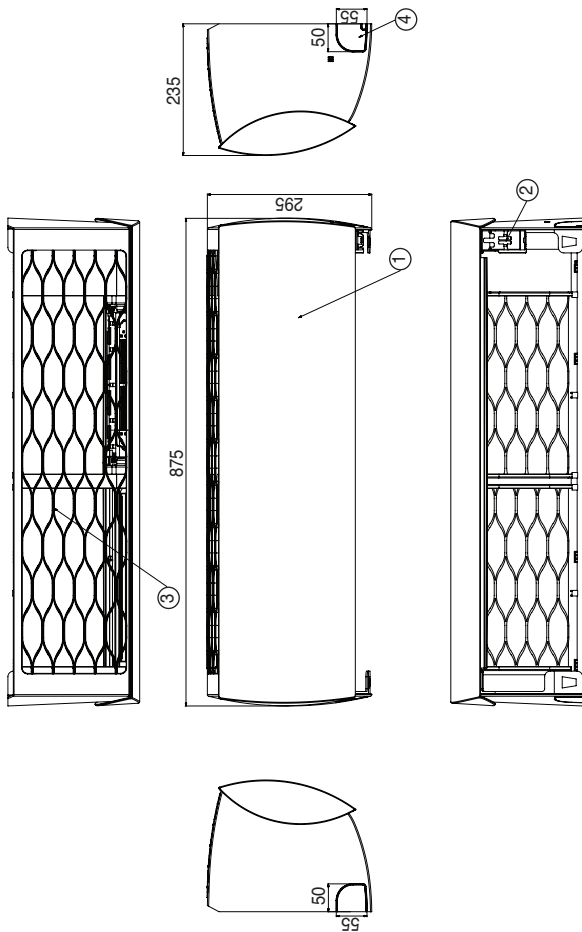
cfm = CMM x 35.3

4. Dimensional drawings

4.1 Indoor Units



ASNW096MMS3(H09AK)
ASNW126MMS3(H12AK)

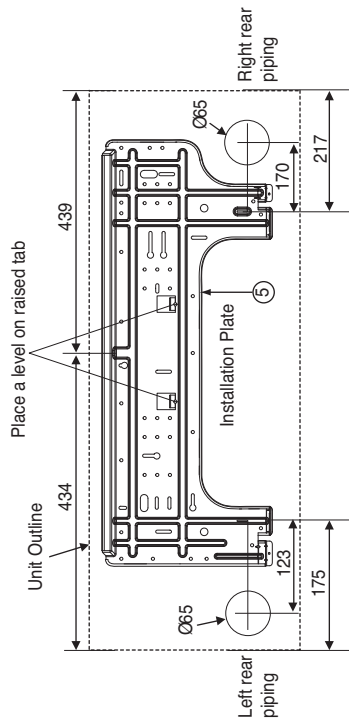


Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	
3	Air Suction Grille	
4	Knockout hole	For pipe and cable
5	Installation Plate	

■ Note

1. The unit should be installed according to installation manual which is in the product box.
2. The Unit is powered from the outdoor unit. So power cable should be connected with the outdoor unit.

[Unit : mm]



LG Electronics

CHASSIS CODE : SM

Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	
3	Air Suction Grille	
4	Knockout hole	For pipe and cable
5	Installation Plate	



1. The unit should be installed according to installation manual which is in the product box.
2. The Unit is powered from the outdoor unit. So power le should be connected with the outdoor unit.

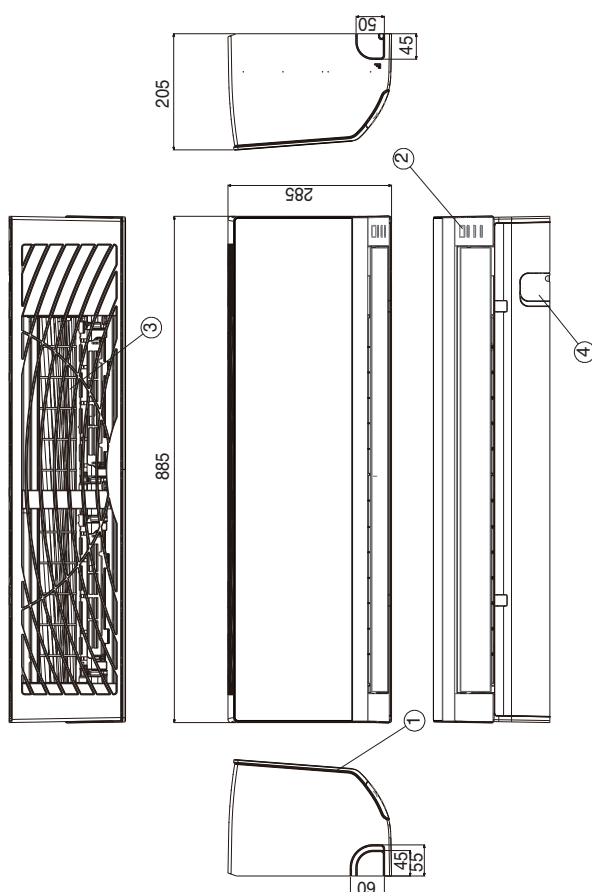
[Unit : mm]



CHASSIS CODE : SB

ASNW096BWR4(A09WL)
ASNW126BWR4(A12WL)
ASNW096BRR4(A09RL)
ASNW126BRR4(A12RL)

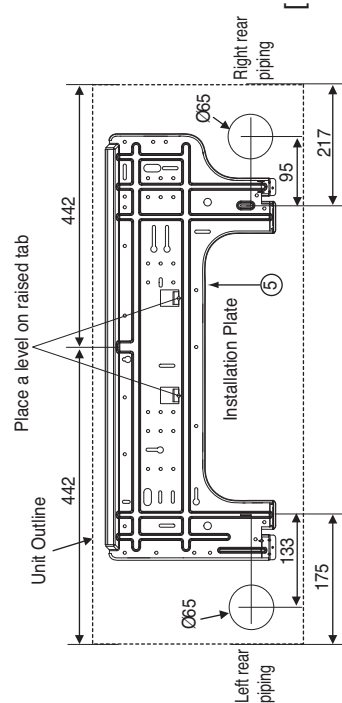
Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	
3	Air Suction Grille	
4	Knockout hole	For pipe and cable
5	Installation Plate	



Note

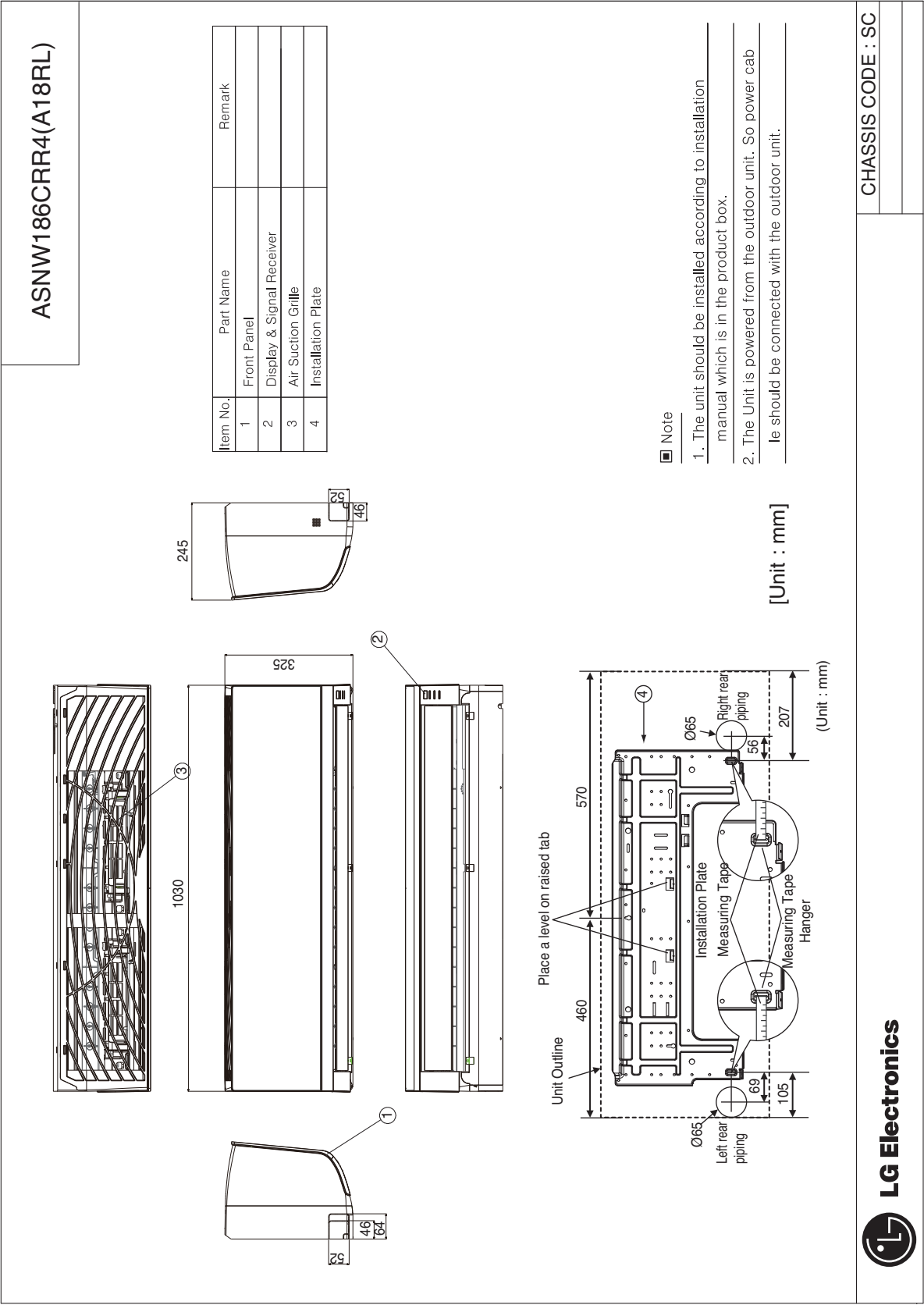
1. The unit should be installed according to installation manual which is in the product box.
2. The Unit is powered from the outdoor unit. So power cable should be connected with the outdoor unit.

[Unit : mm]

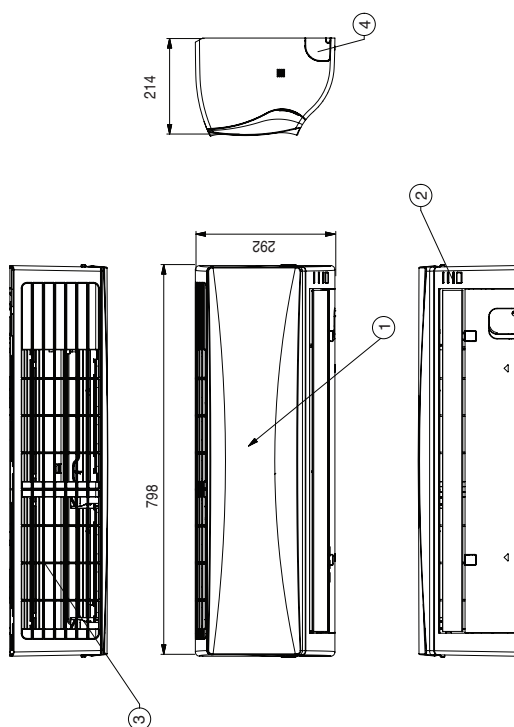


LG Electronics

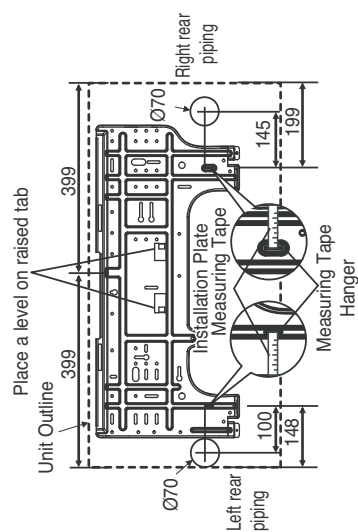
CHASSIS CODE : SB



USNW096H4A0(E09EL)
USNW126H4A0(E12EL)
USNW096HSA0(Z09SL)
USNW126HSA0(Z12SL)



Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	
3	Air Suction Grille	
4	Knockout hole	For pipe and cable
5	Installation Plate	



[Unit: mm]

□ Note

1. The unit should be installed according to installation manual which is in the product box.
2. The Unit is powered from the outdoor unit. So power le should be connected with the outdoor unit.

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CHASSIS CODE : SH

4.2 Outdoor Units

ASUW0963WB0(G09WL) ASUW1263WB0(G12WL)
ASUW096MUF3(H09AK) ASUW096BUS3(S09AK)
ASUW126MUF3(H12AK) ASUW126BUS3(S12AK)
ASUW096NRR0(A09LL) ANUW126NRR0(A12LL)
ASUW1862EF0(P18EL) ASUW1862WR0(D18RL)

Note

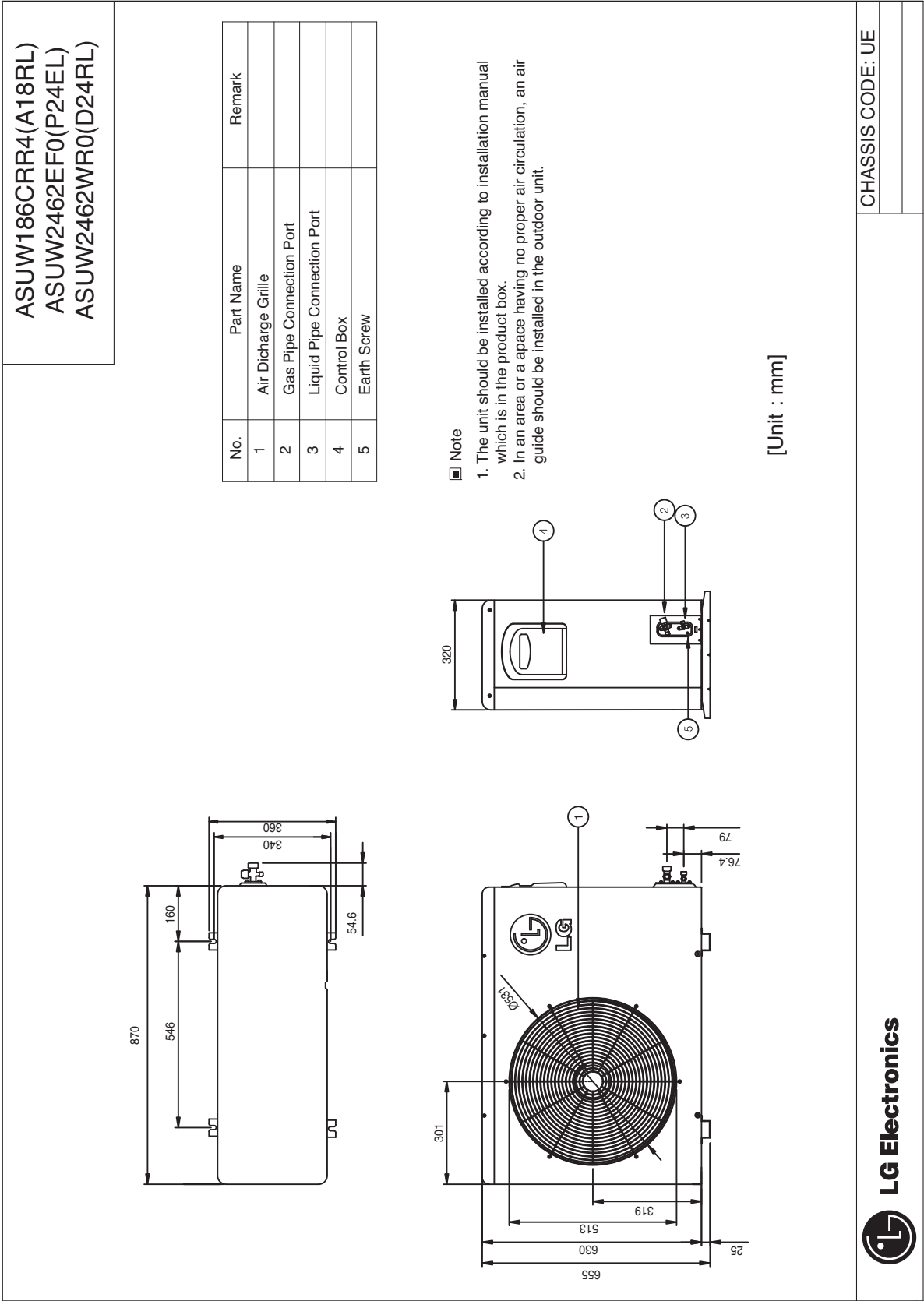
1. The unit is not allowed to be installed in closed area.
2. In an area or a space having no proper air circulation,
an air guide should be installed in the outdoor unit.

[Unit : mm]

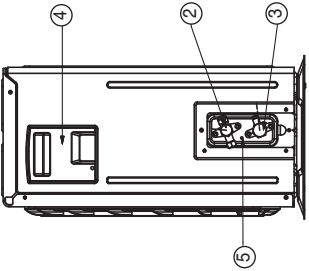
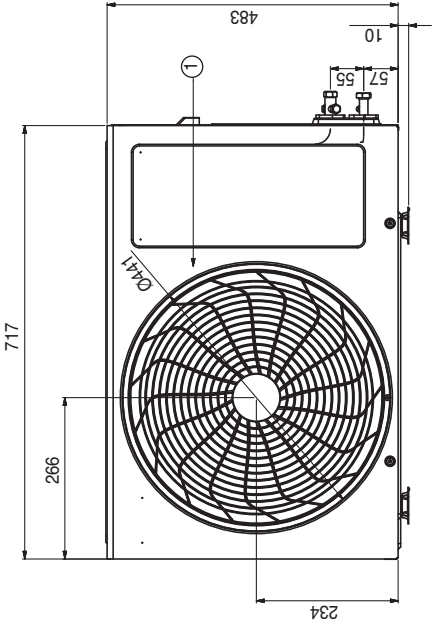
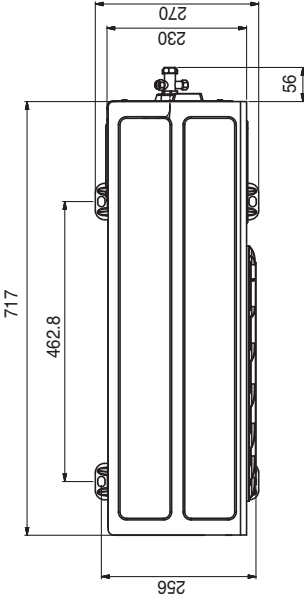
Item No	Part Name	Remark
1	Air Discharge Grille	
2	Gas Pipe Connection Port	
3	Liquid Pipe Connection Port	
4	Control Box	
5	Earth Screw	

LG Electronics

CHASSIS CODE : UL2



USUW096B8F0(P09RL) USUW126B8F0(P12RL)
USUW096H4A0(E09EL) USUW126H4A0(E12EL)



■ Note

- 1. The unit is not allowed to be installed in closed area.
- 2. In an area or a space having no proper air circulation, an air guide should be installed in the outdoor unit.

[Unit : mm]

Item No	Part Name	Remark
1	Air Discharge Grille	
2	Gas Pipe Connection Port	
3	Liquid Pipe Connection Port	
4	Control Box	
5	Earth Screw	

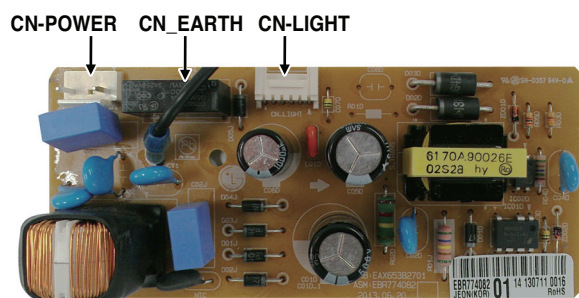
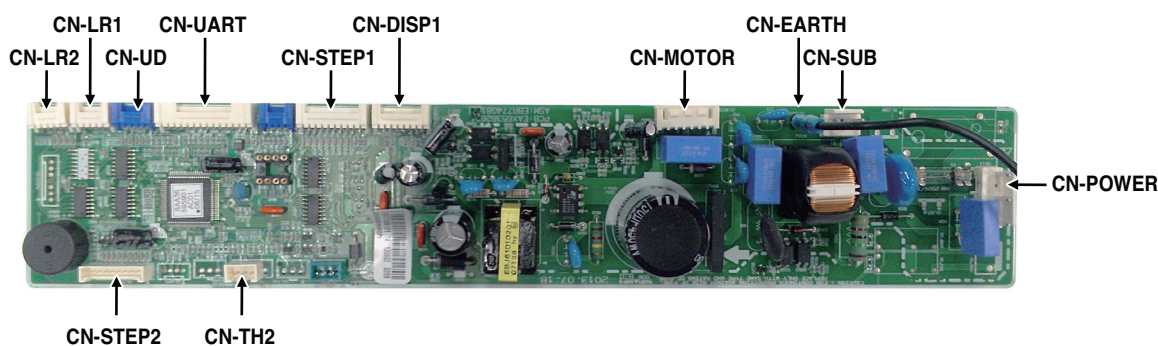
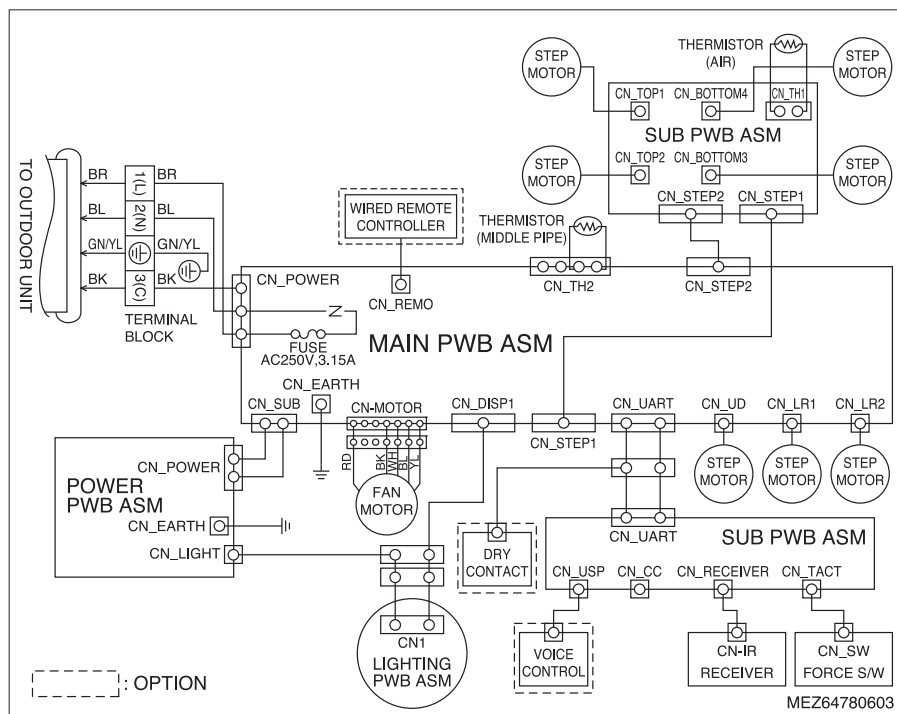


LG Electronics

CHASSIS CODE : UA3

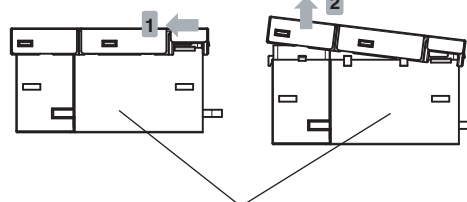
5.1 Indoor units

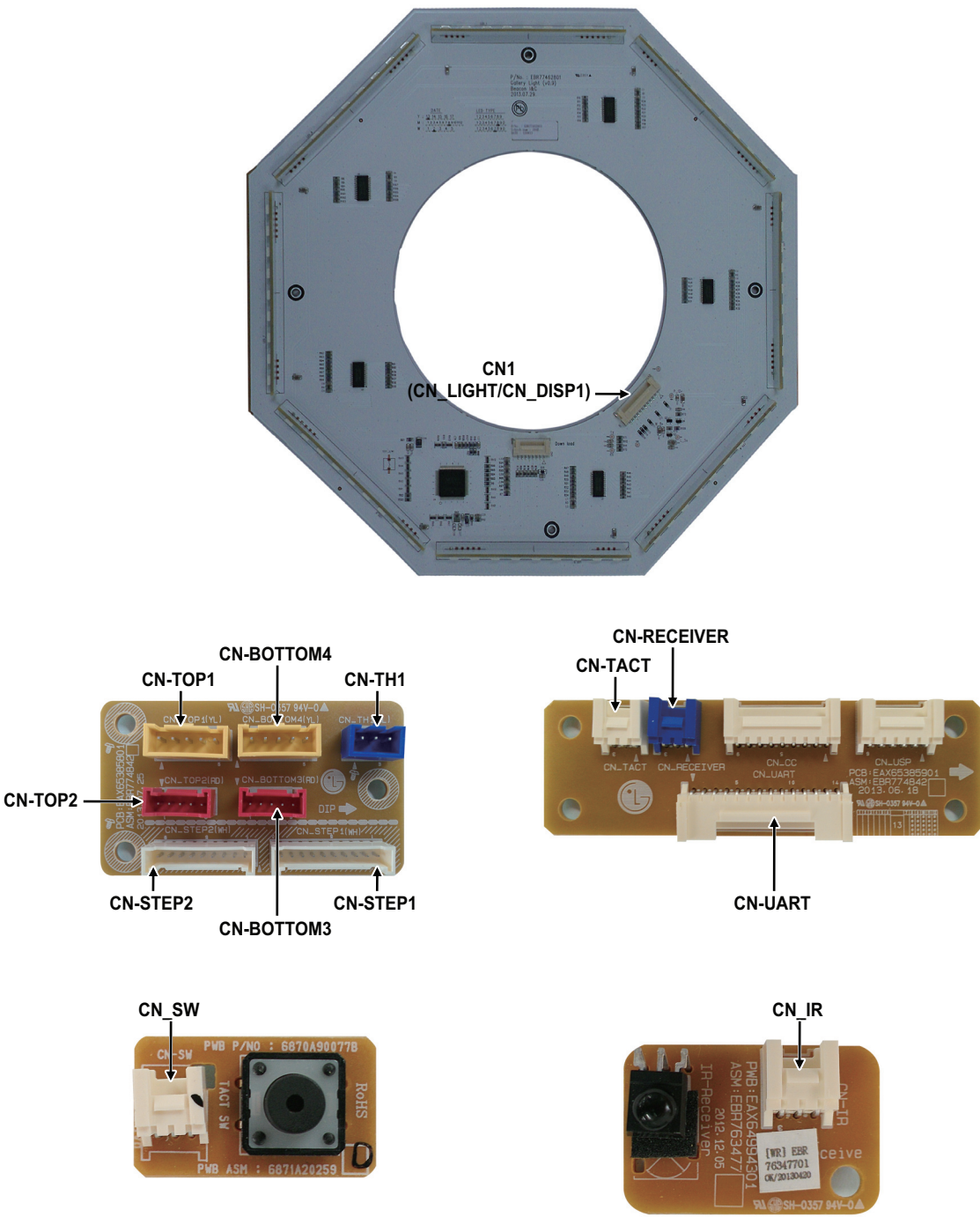
Models: ASNW0963WB0(G09WL), ASNW1263WB0(G12WL)

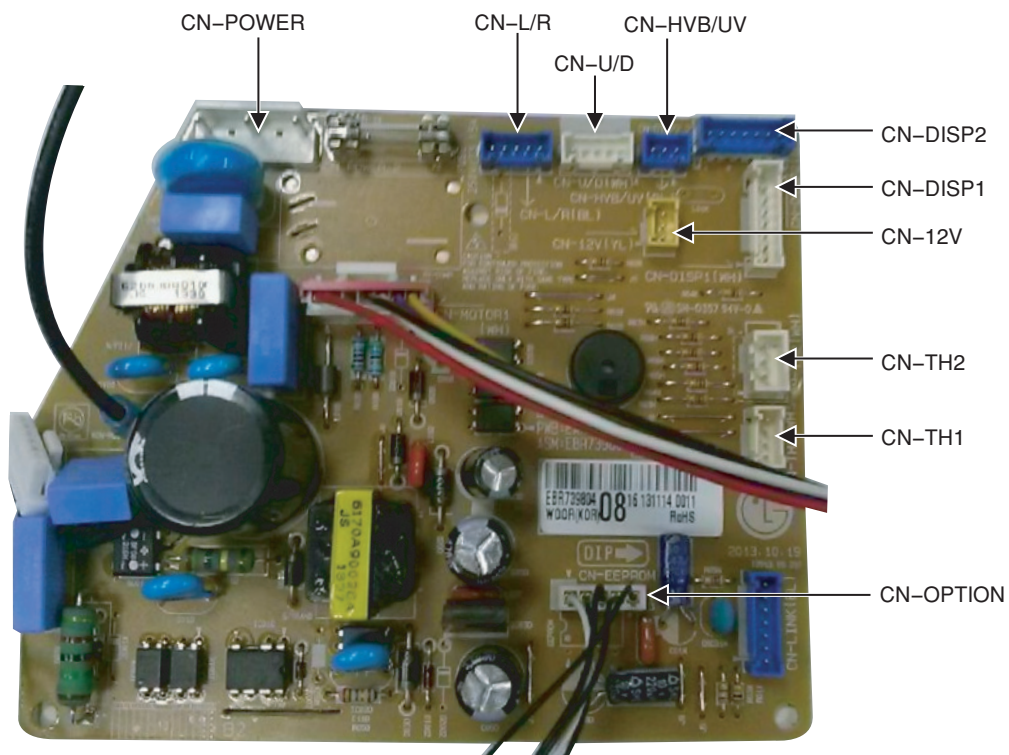
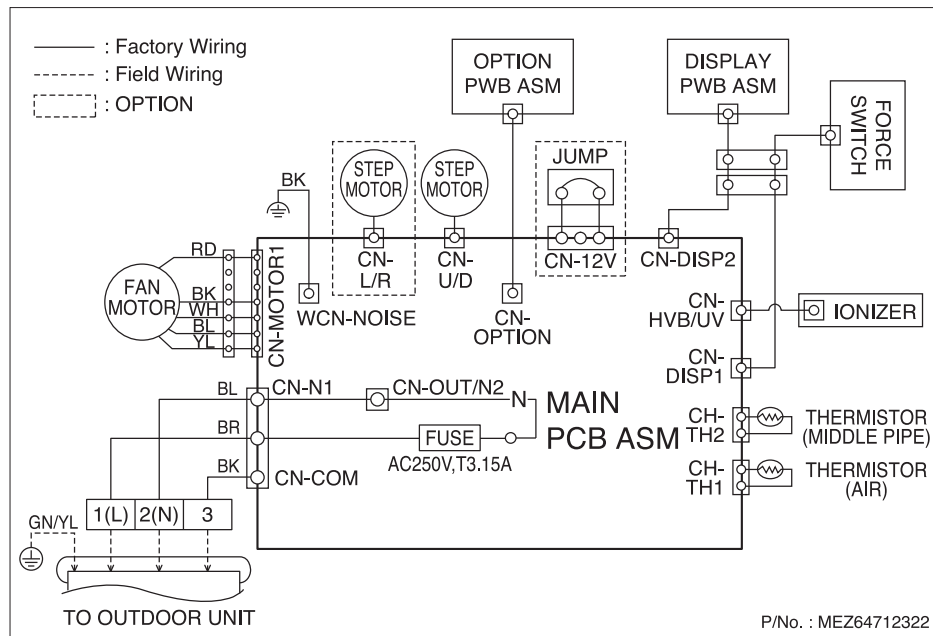


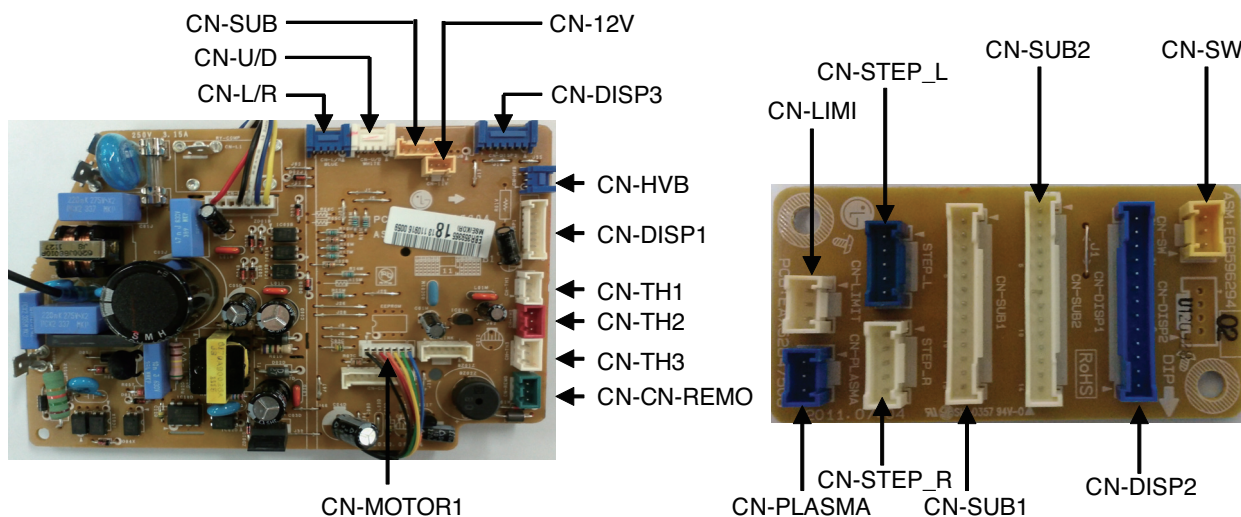
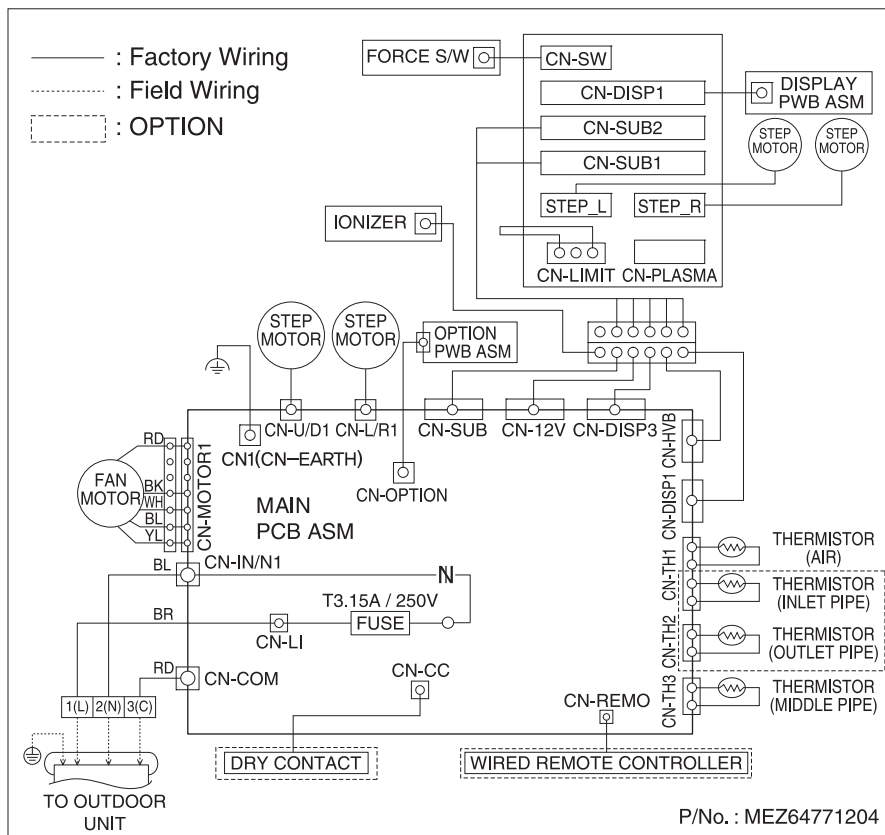
How to open the control cover

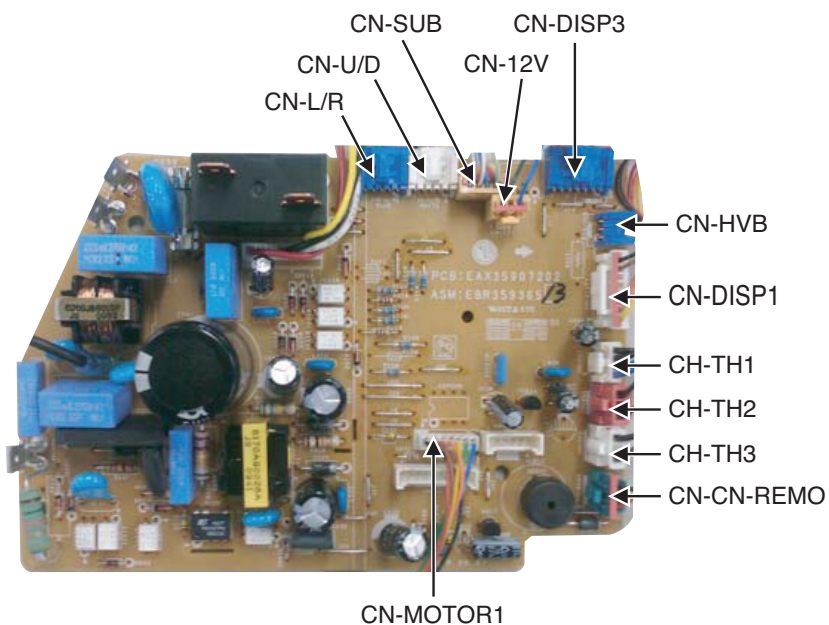
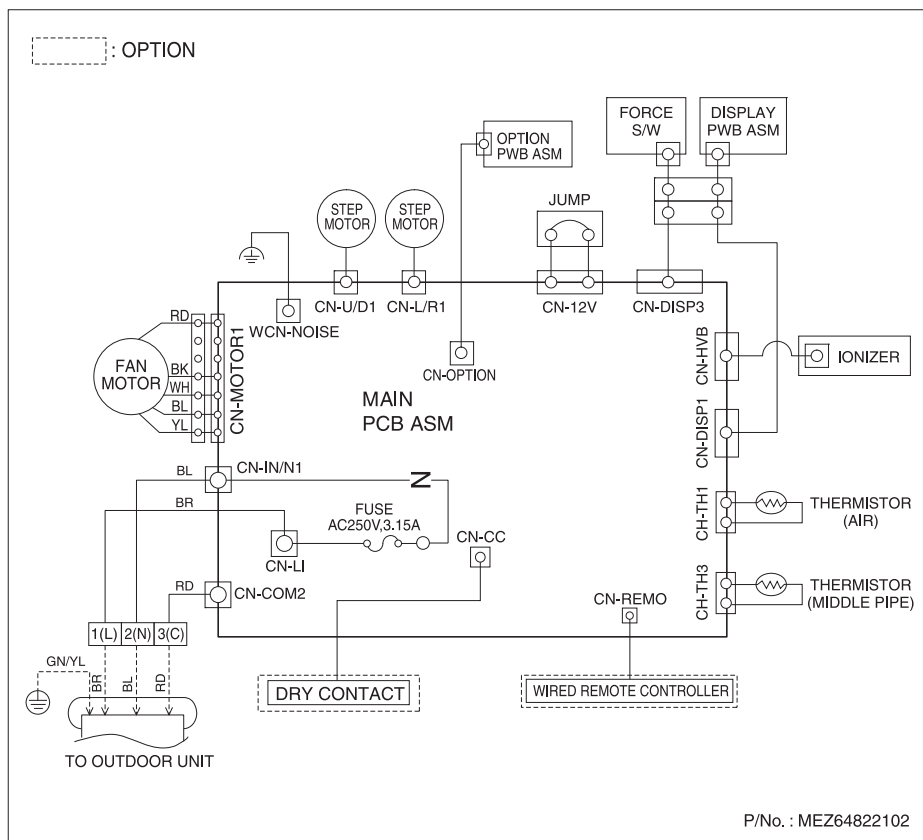
1. Push the cover to left.
2. Lift up the cover.



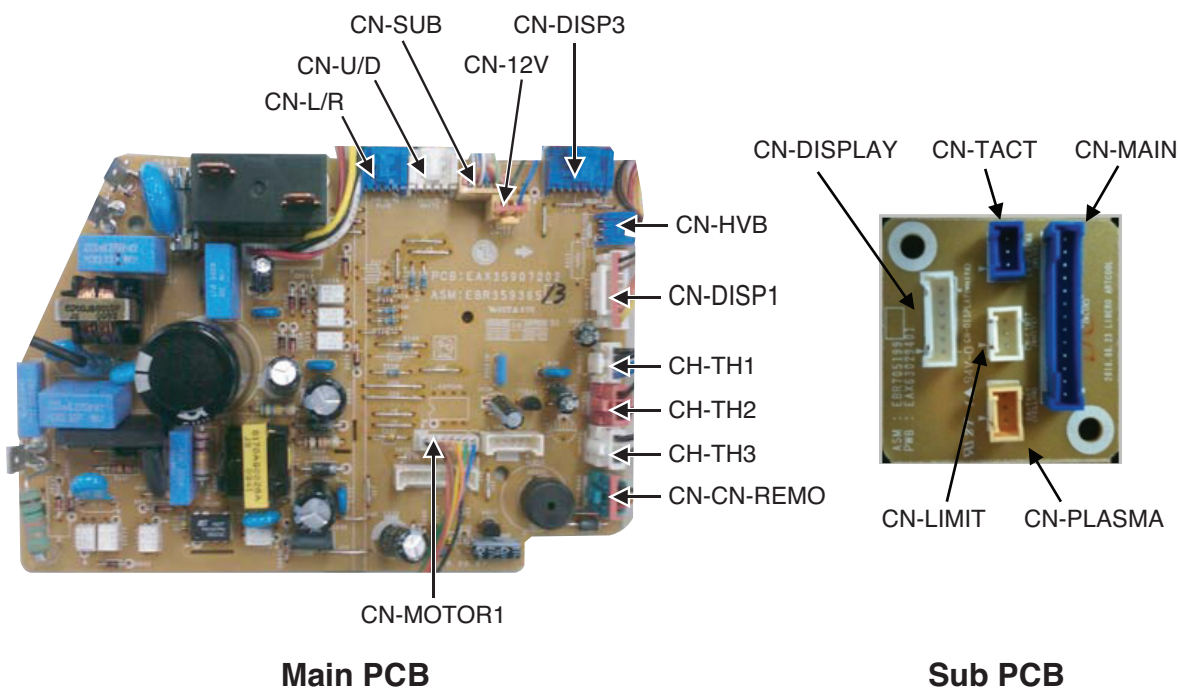
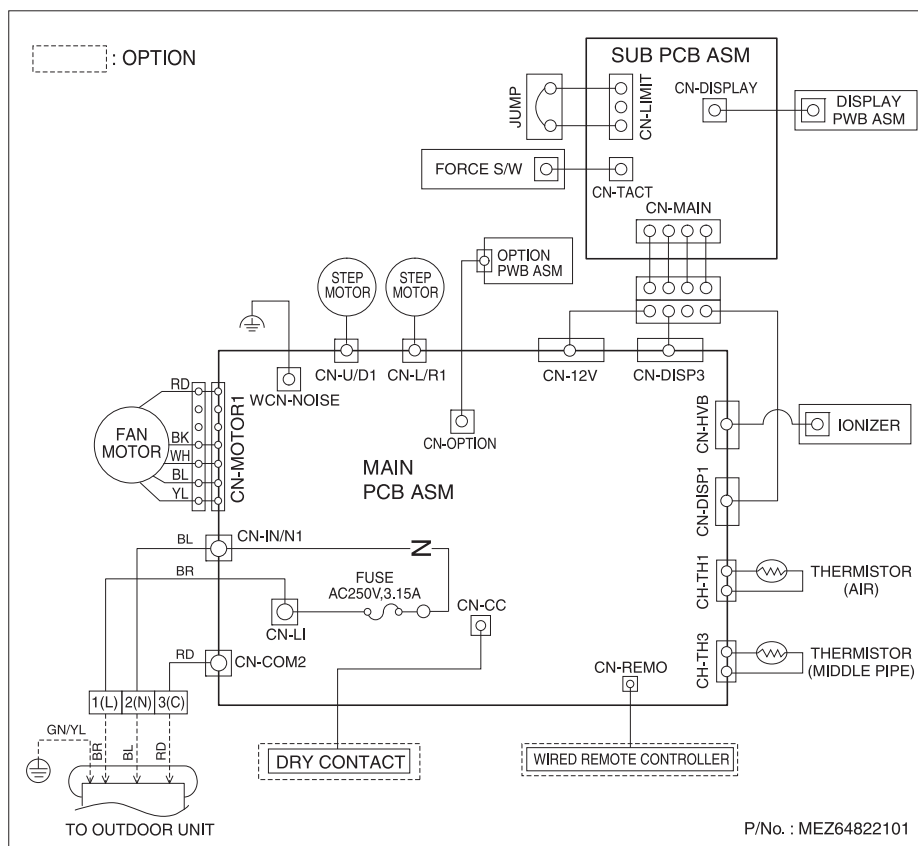


Models: AS-W1862EF0(P18EL), ASNW2462EF0(P24EL)


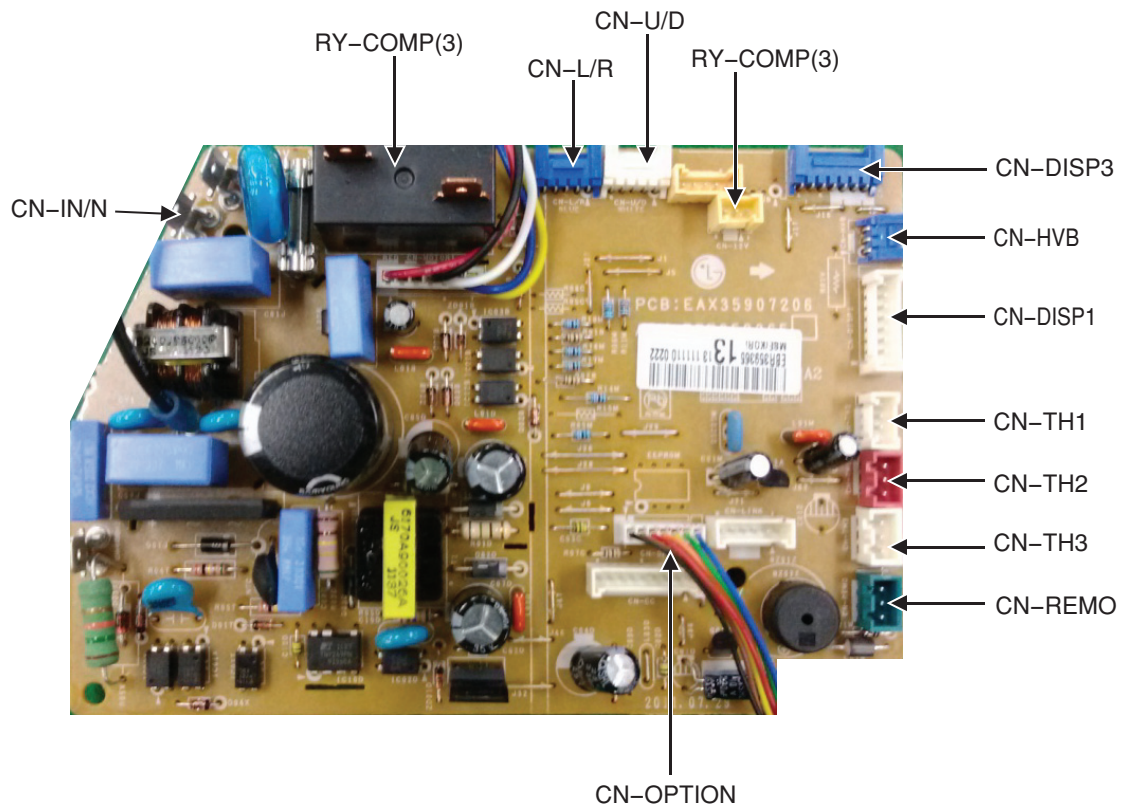
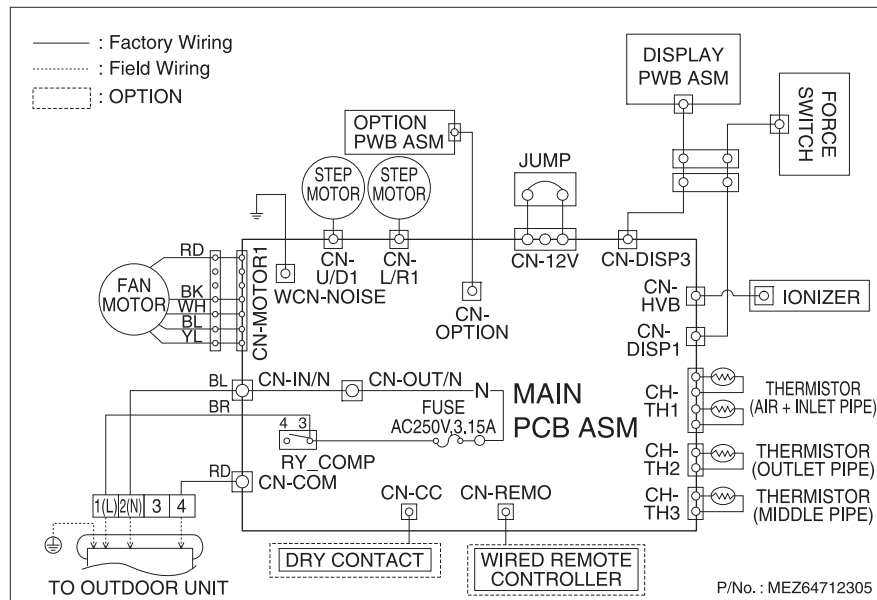
Models: ASNW096MMS3(H09AK),ASNW126MMS3(H12AK)


Models: ASNW096BNR3(D09AK),ASNW126BNR3(D12AK)

Main PCB

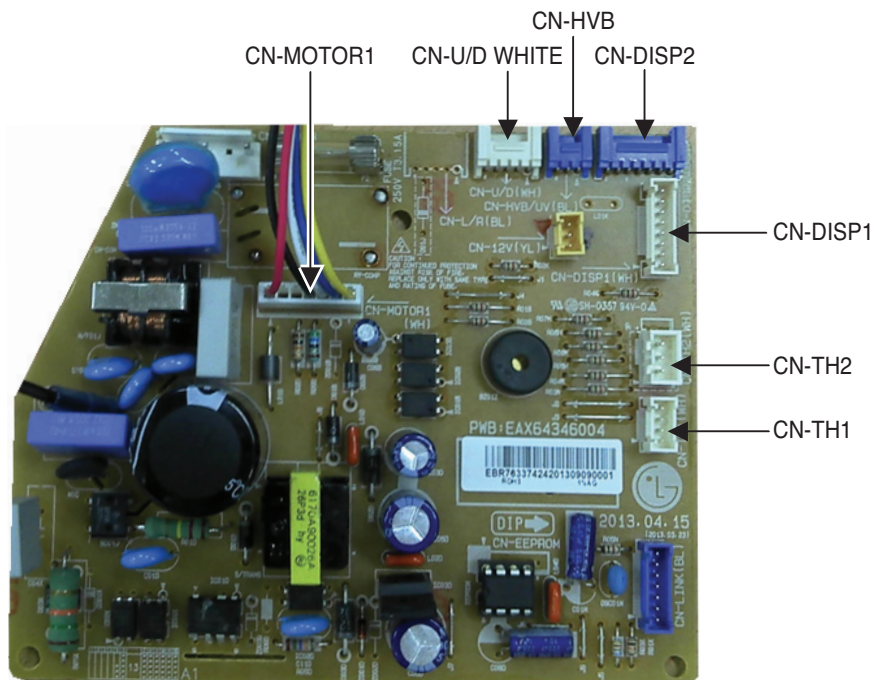
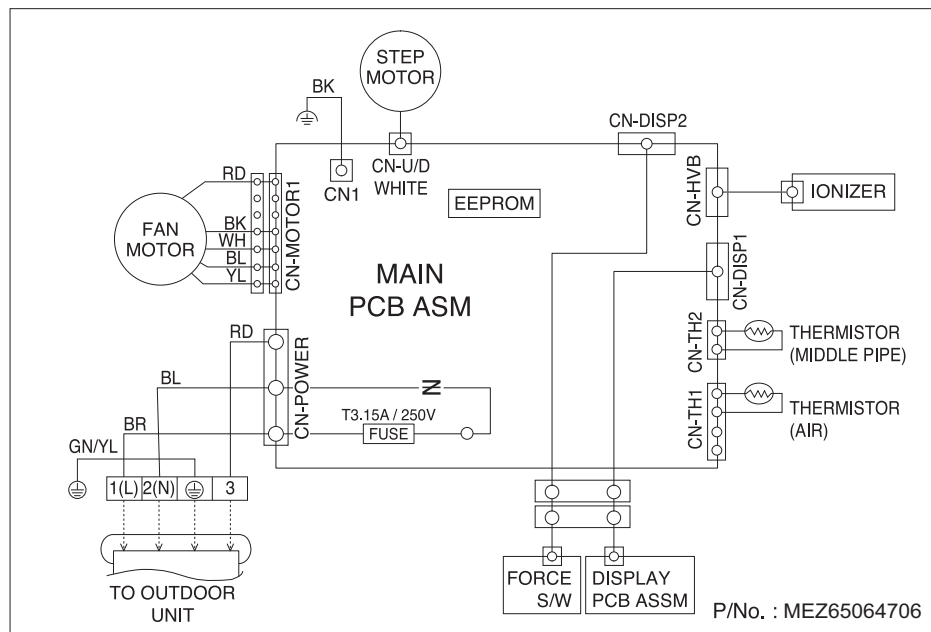
**Models: ASNW096BWR4(A09WL), ASNW126BWR4(A12WL), ASNW096BRR4(A09RL)
ASNW126BRR4(A12RL)**



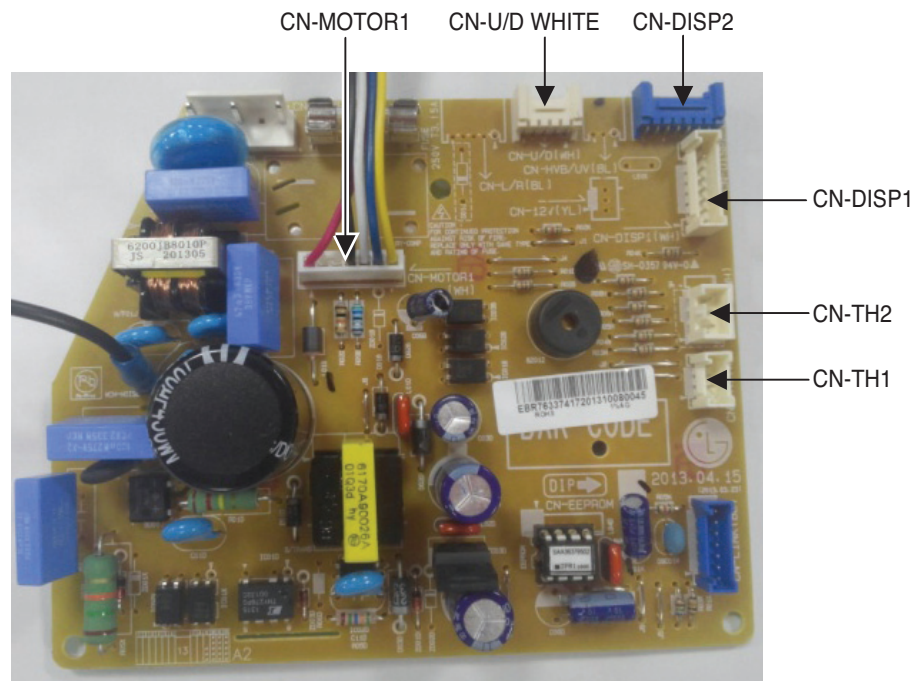
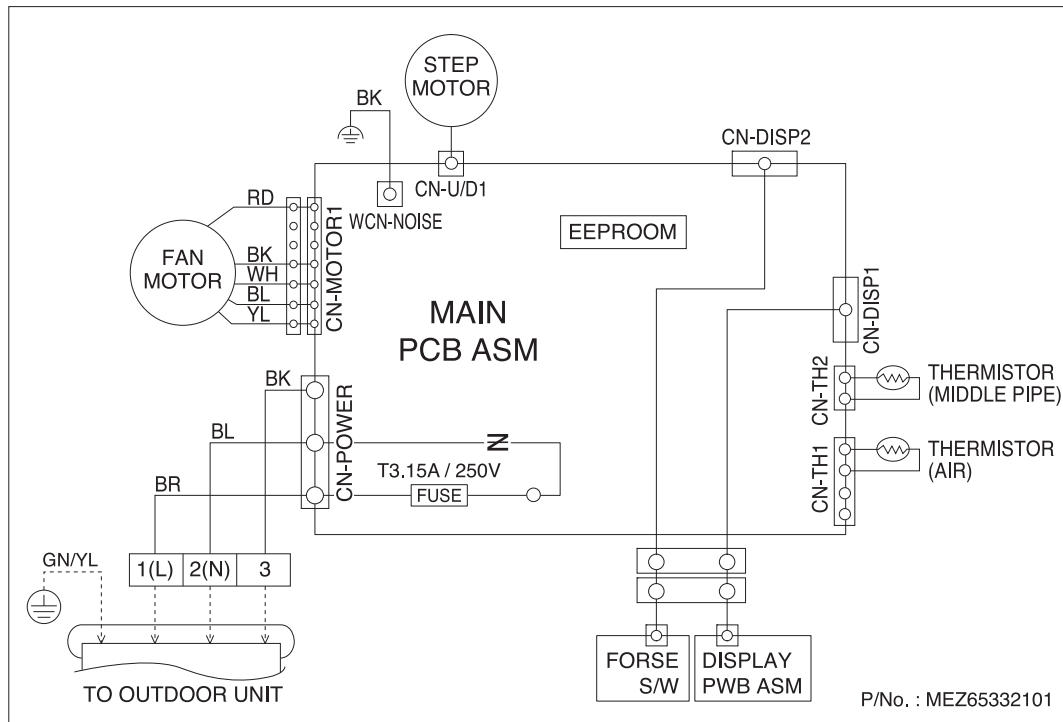
Model: ASNW186CRR4(A18RL)



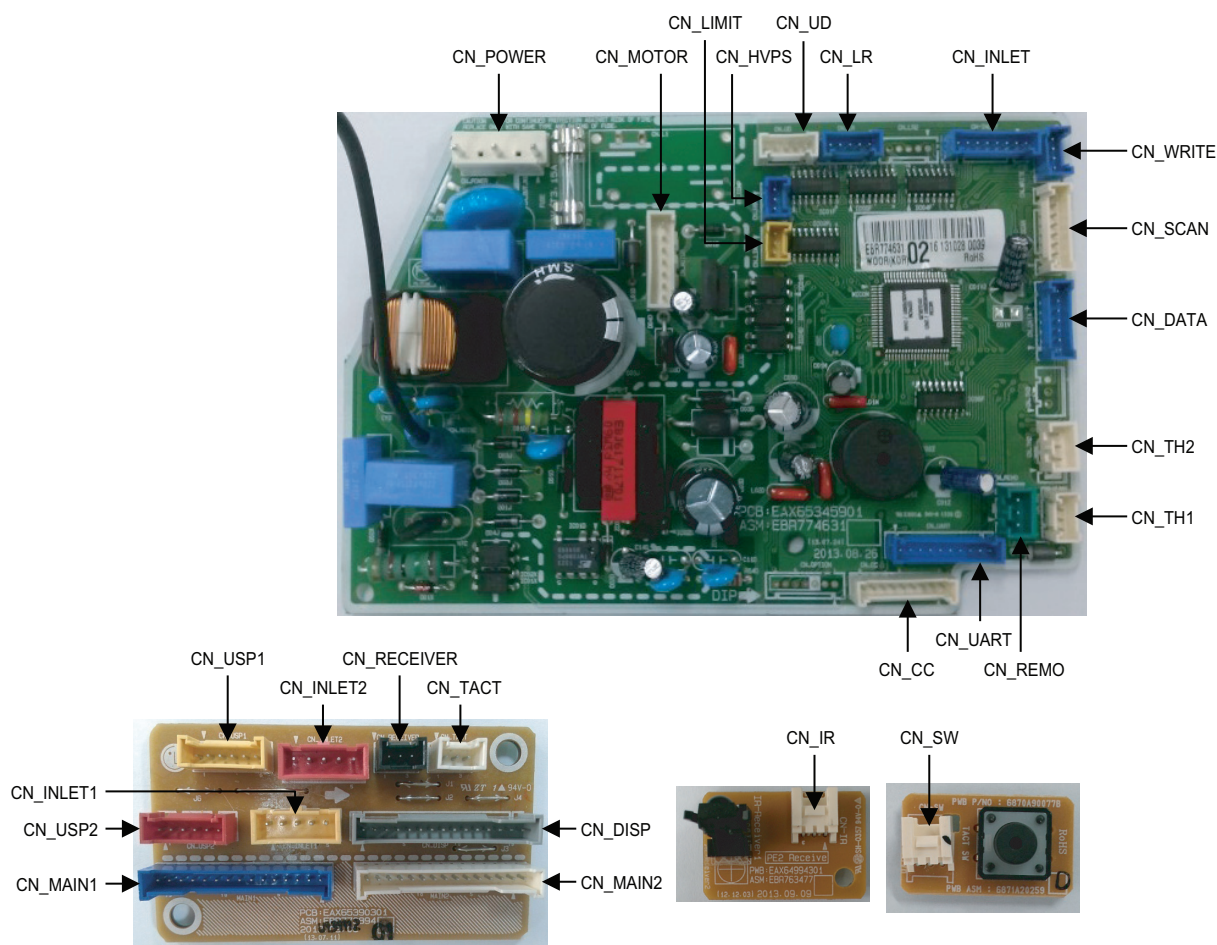
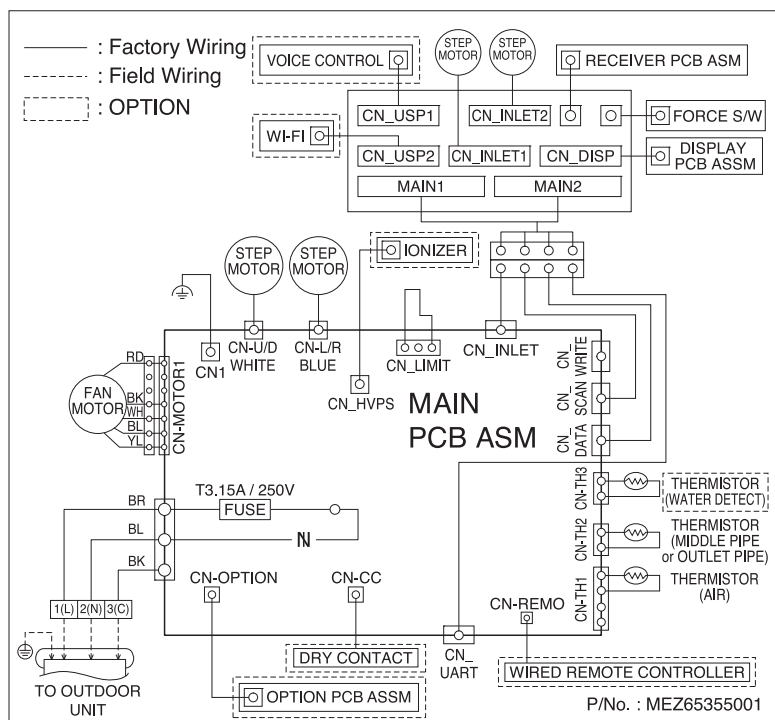
Models: USNW096B8F0(P09RL),USNW126B8F0(P12RL)



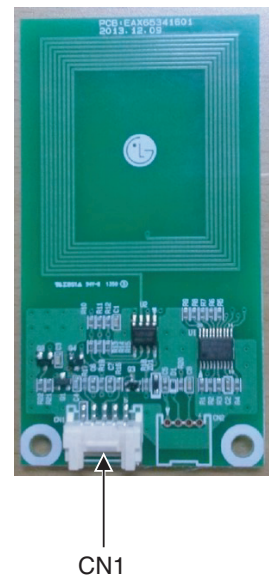
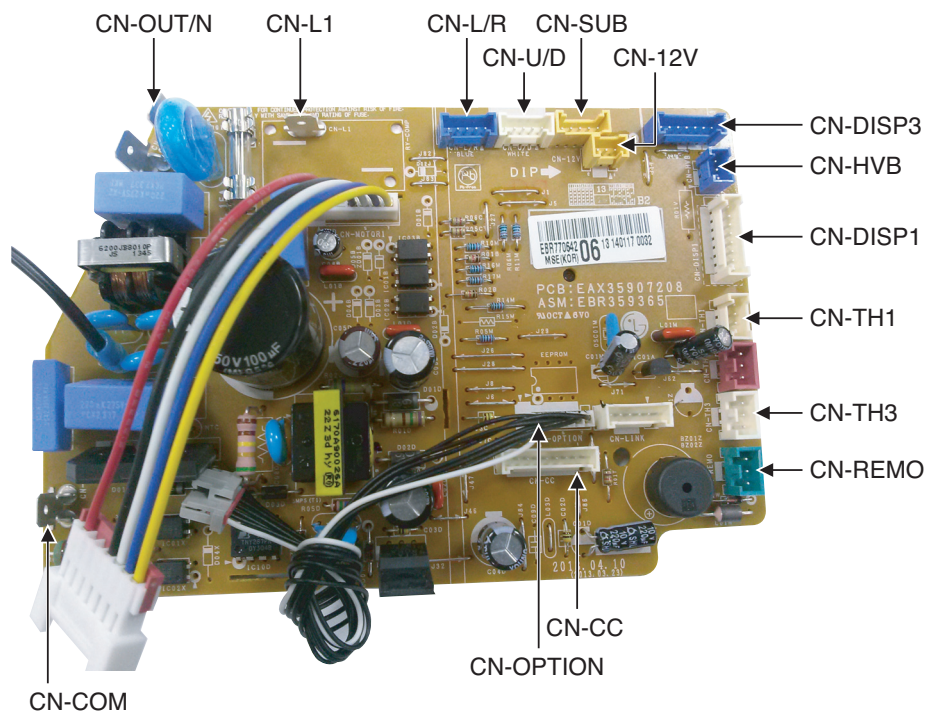
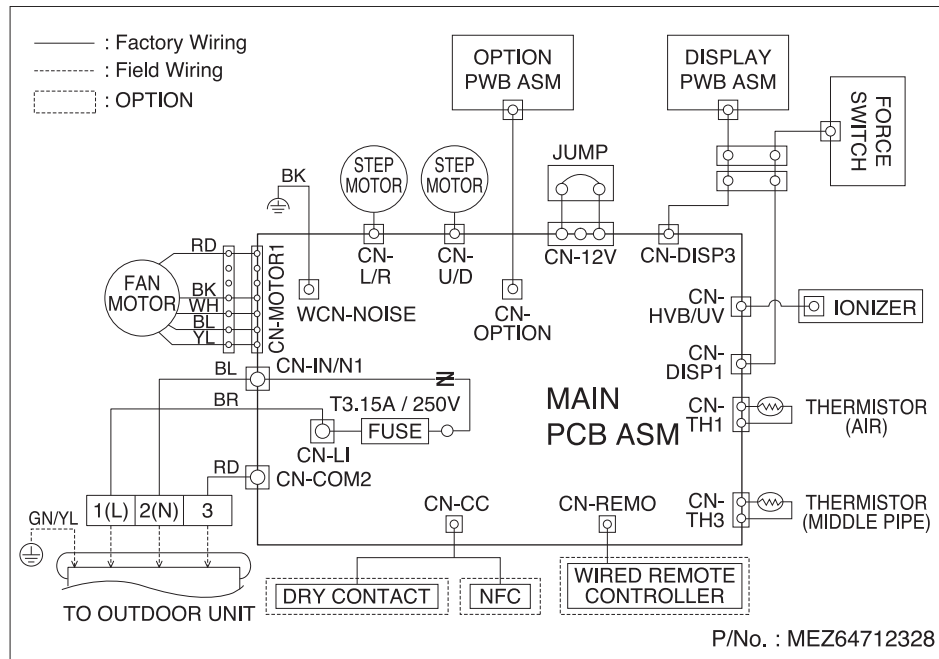
**Models: USNW096H4A0(E09EL),USNW126H4A0(E12EL),USNW096HSA0(Z09SL)
USNW126HSA0(Z12SL)**



Models: ASNW096NRR0(A09LL), ASNW126NRR0(A12LL)

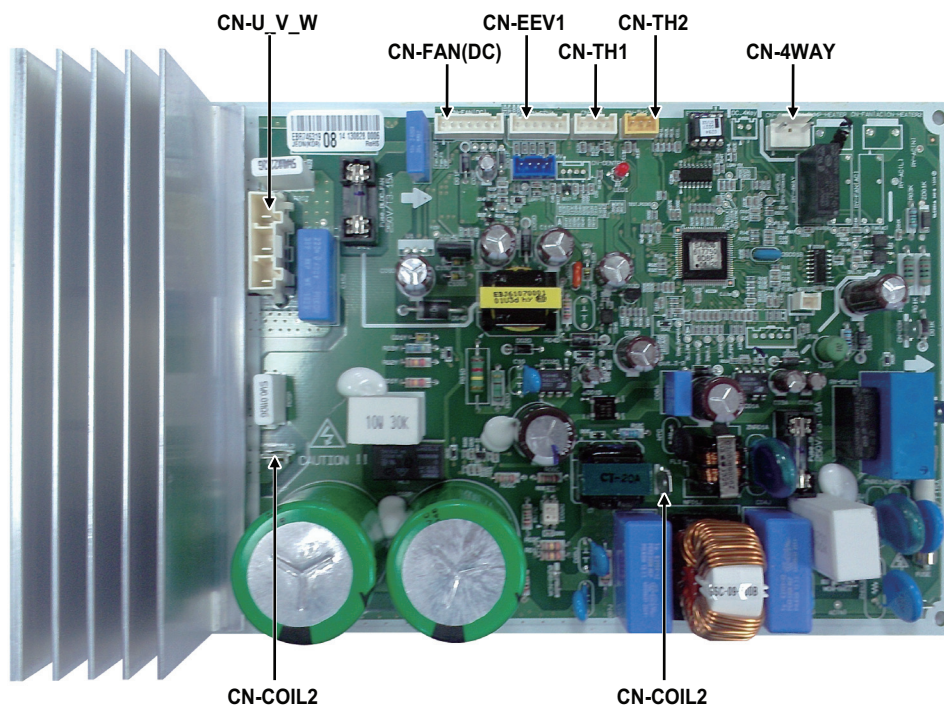
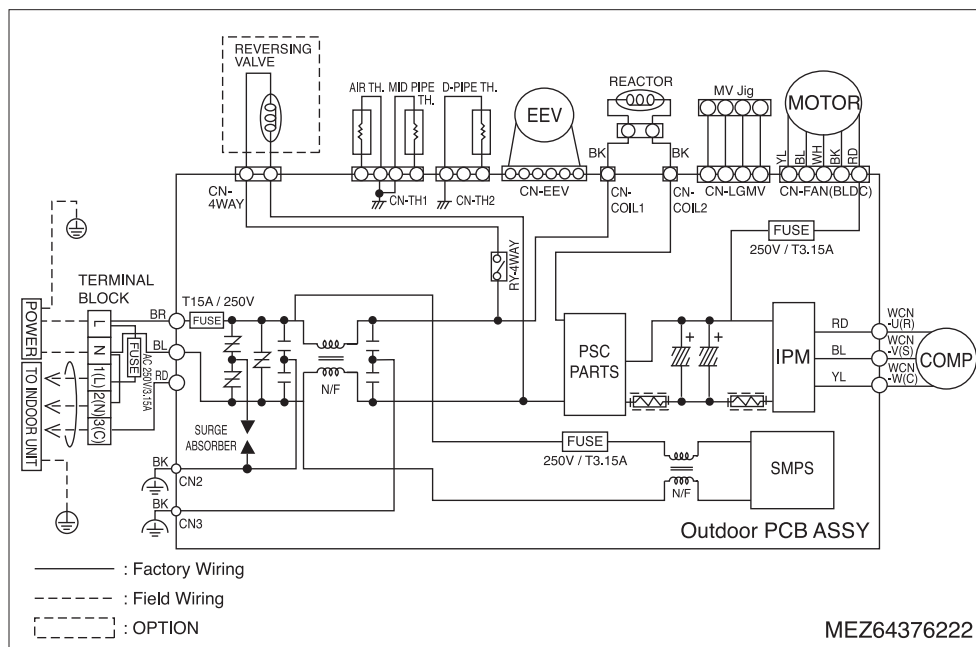


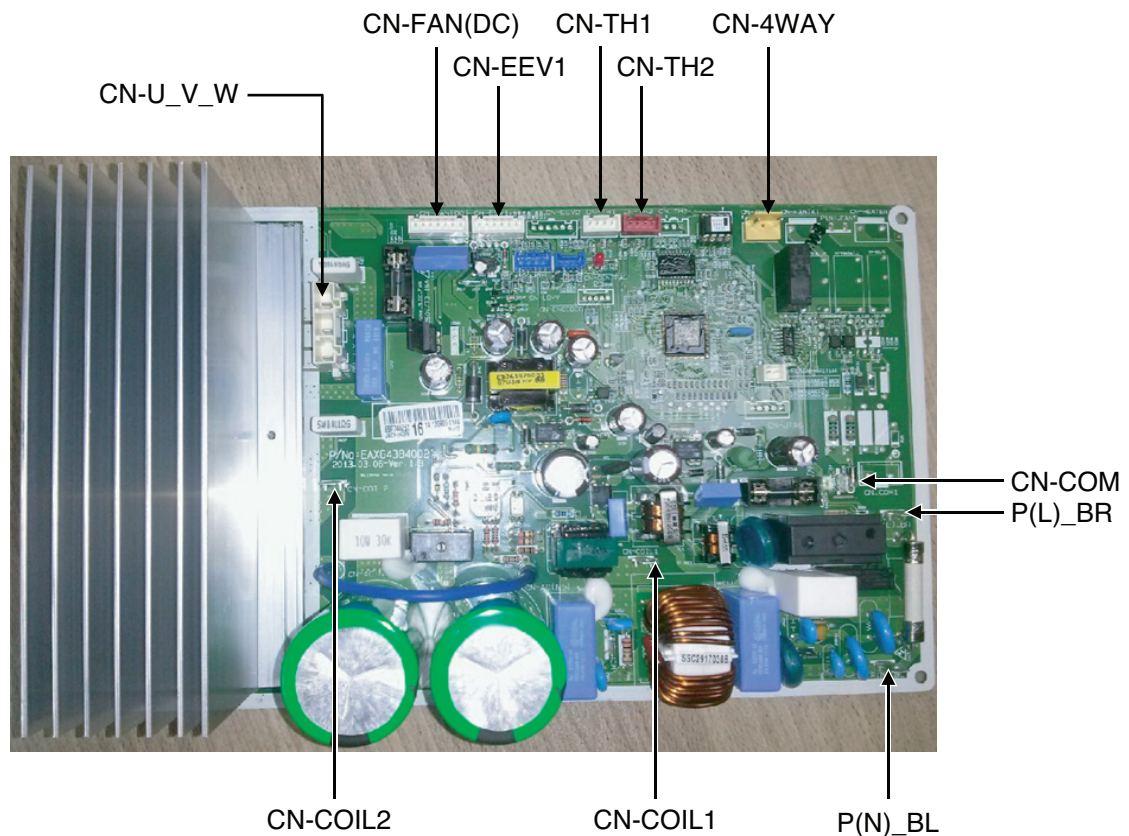
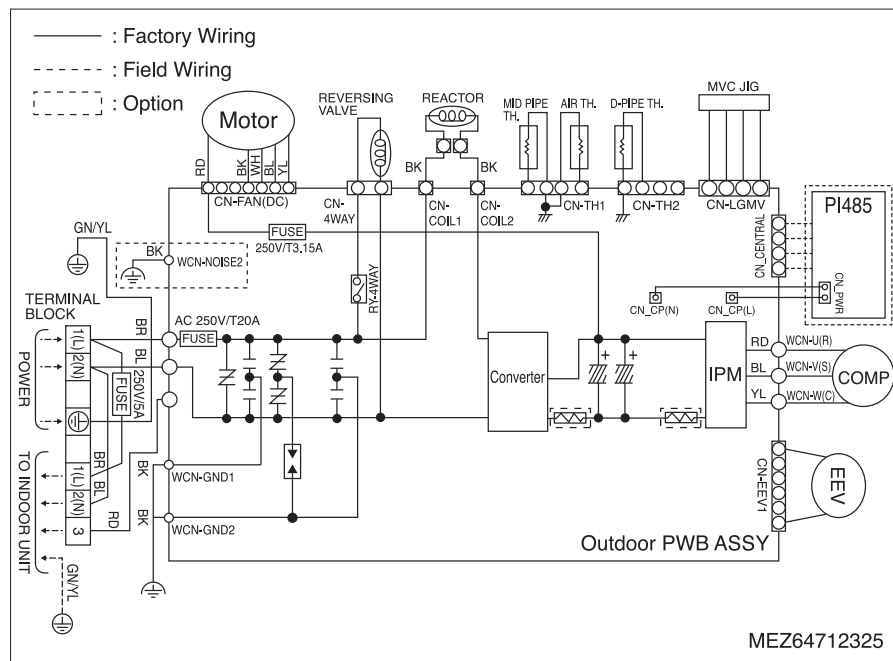
Models: AS-W1862WR0(D18RL), AS-W2462WR0(D24RL)

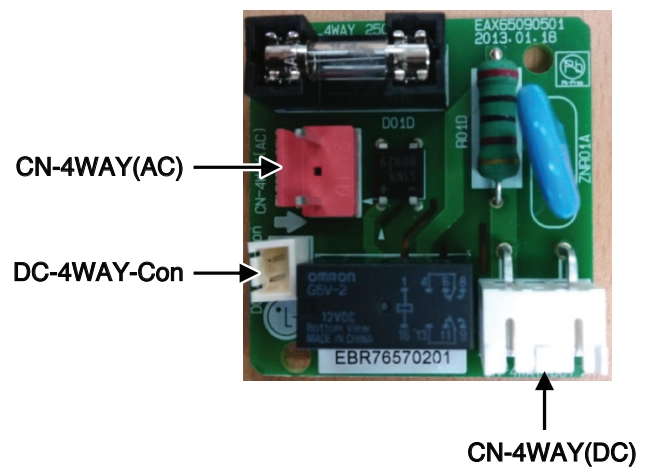
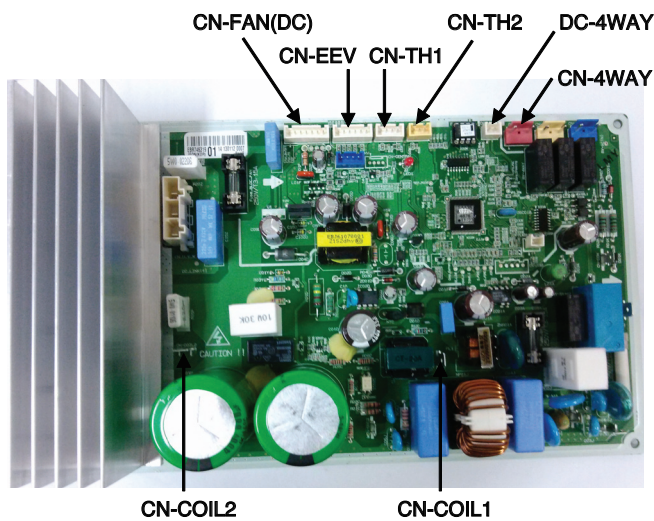
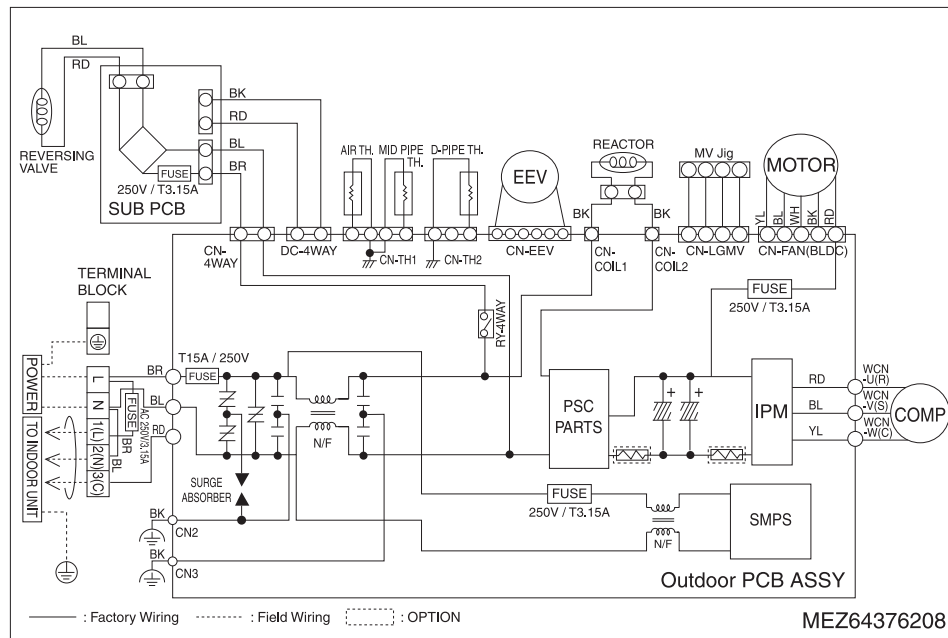


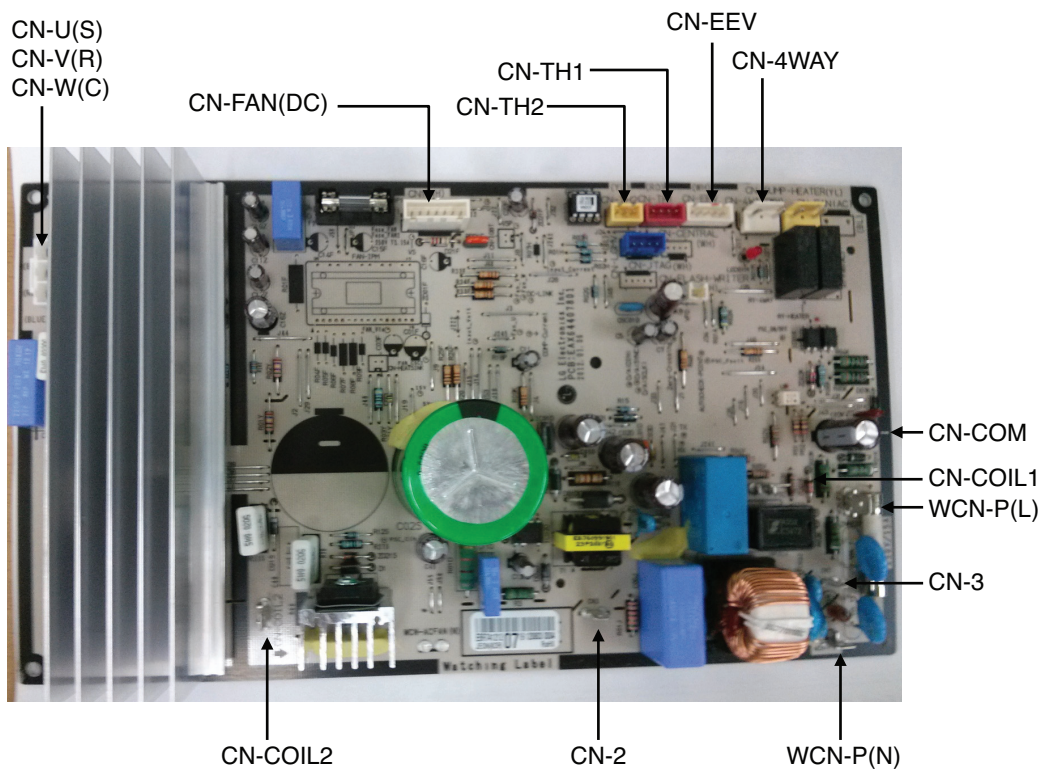
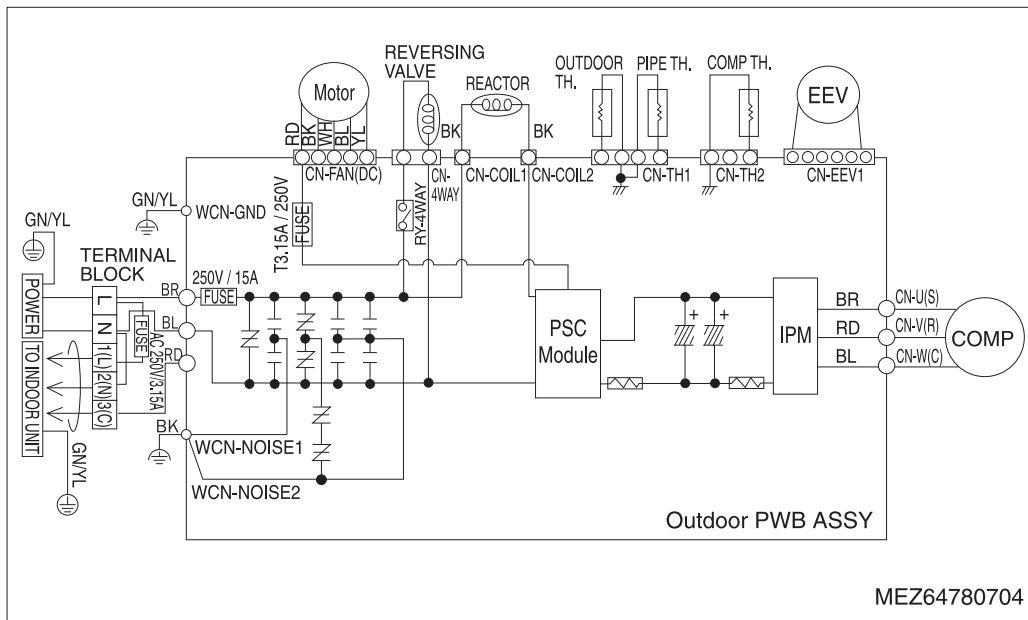
5.2 Outdoor units

Models: ASUW0963WB0(G09WL), ASUW1263WB0(G12WL)

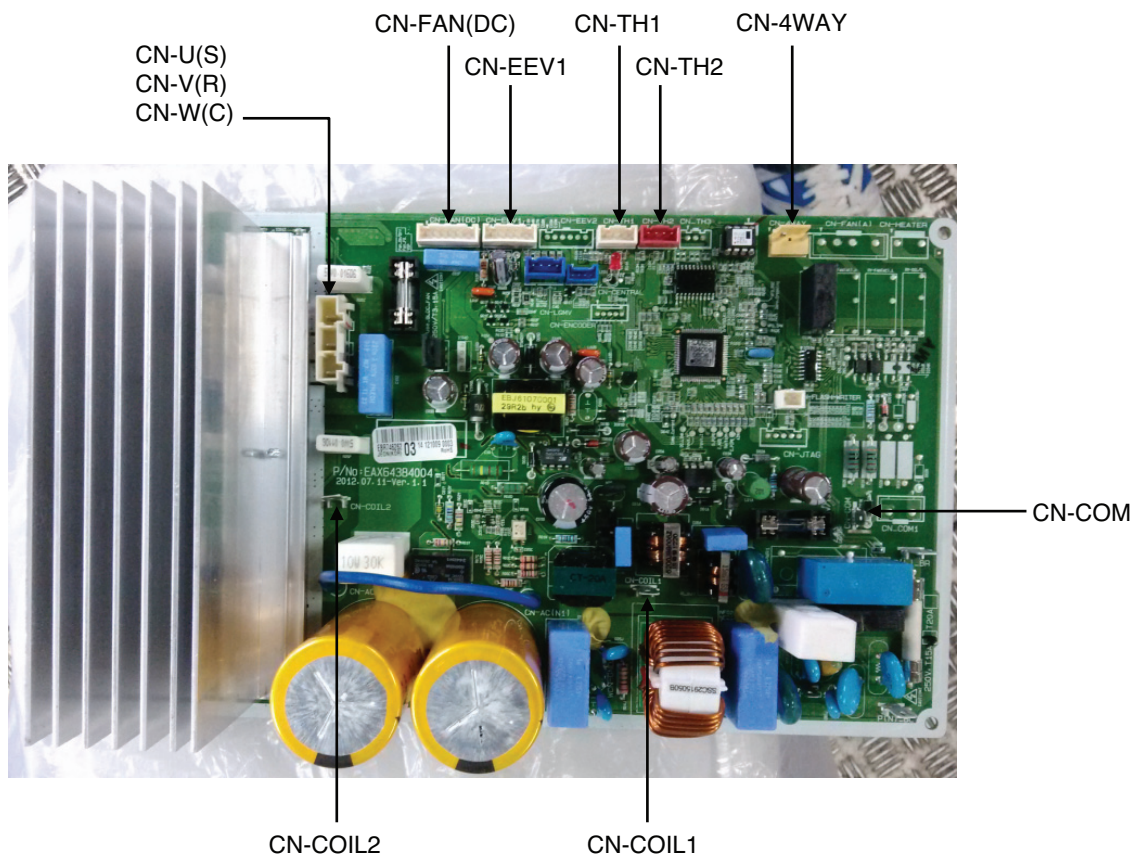
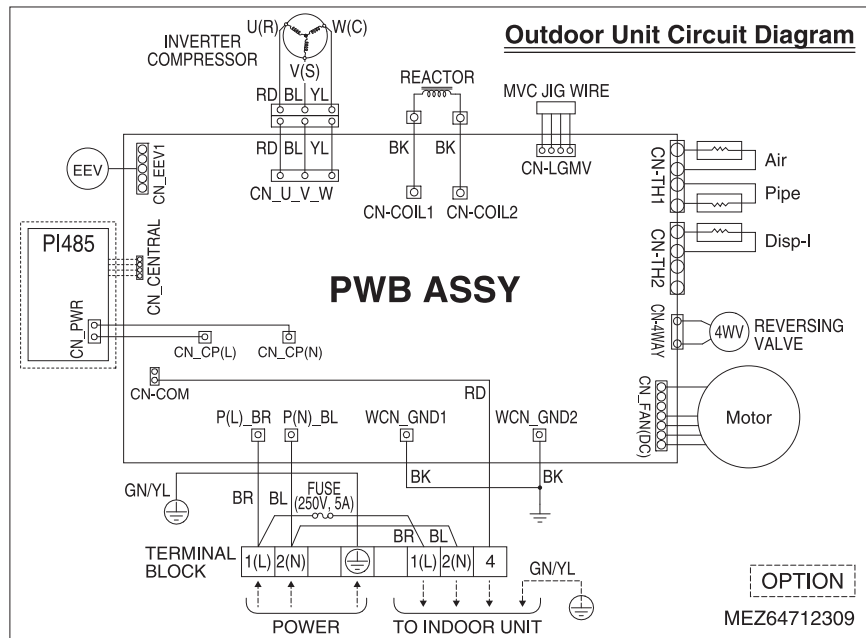


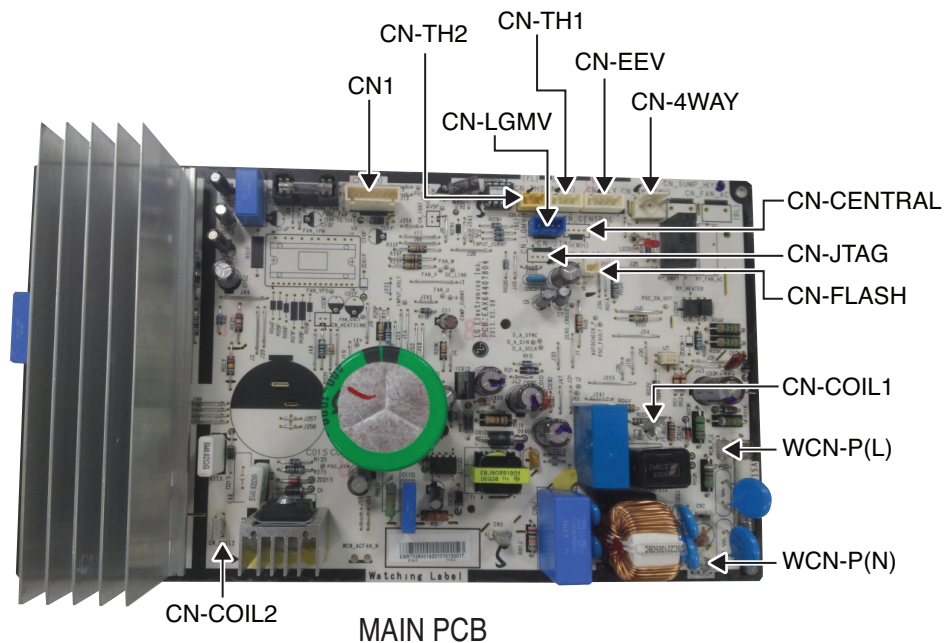
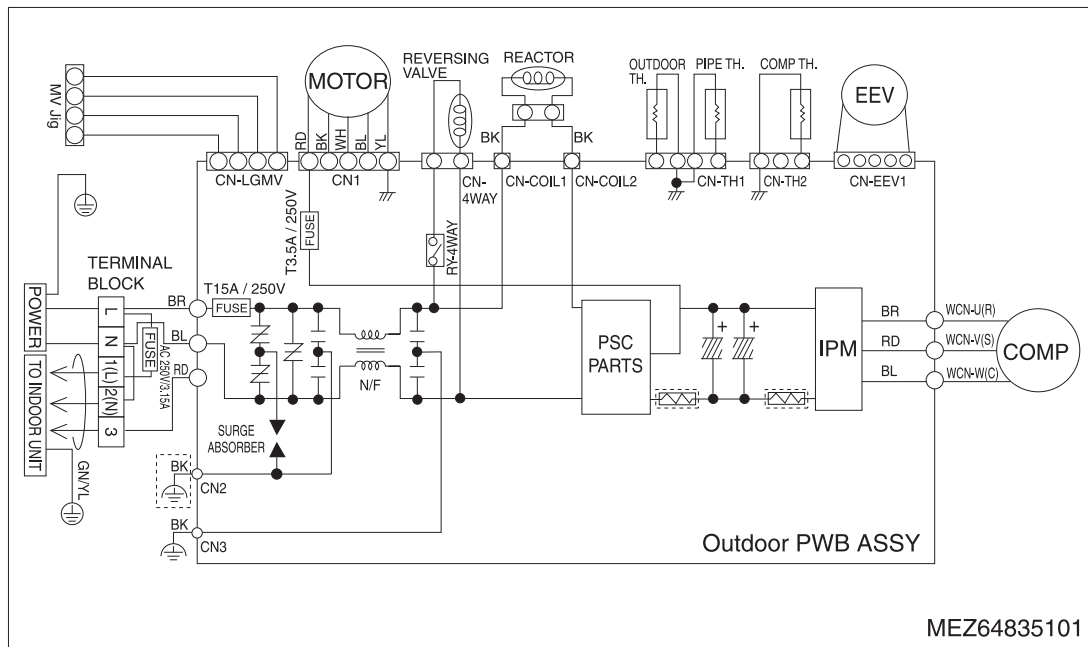
Model: ASUW2462EF0(P24EL), AS-W2462WR0(D24RL)


Models: ASUW096MUF3(H09AK),ASUW126MUF3(H12AK)


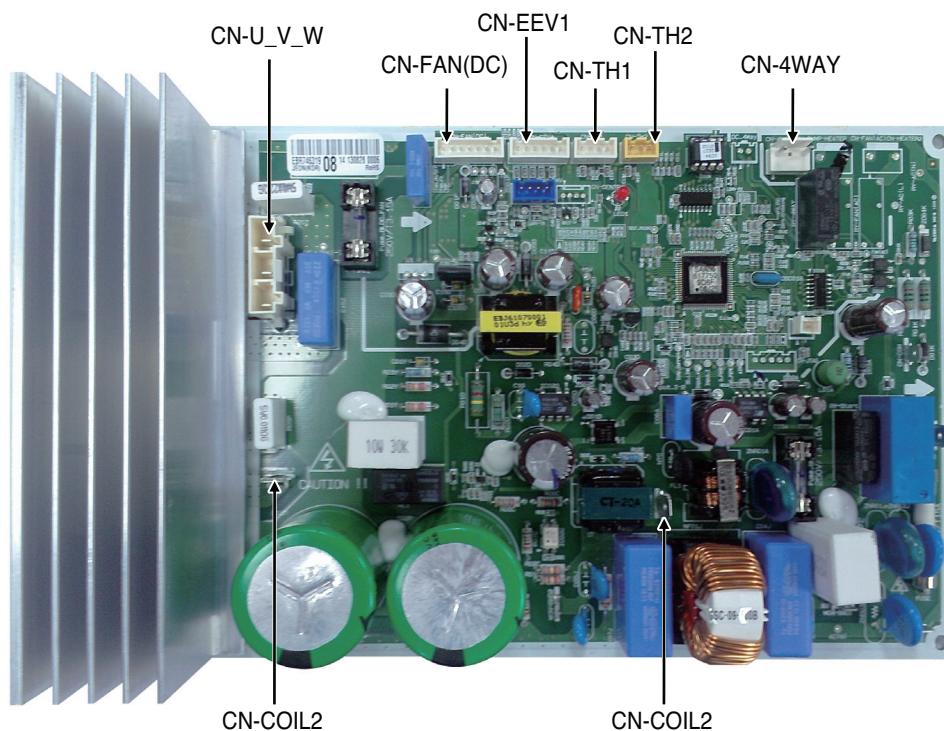
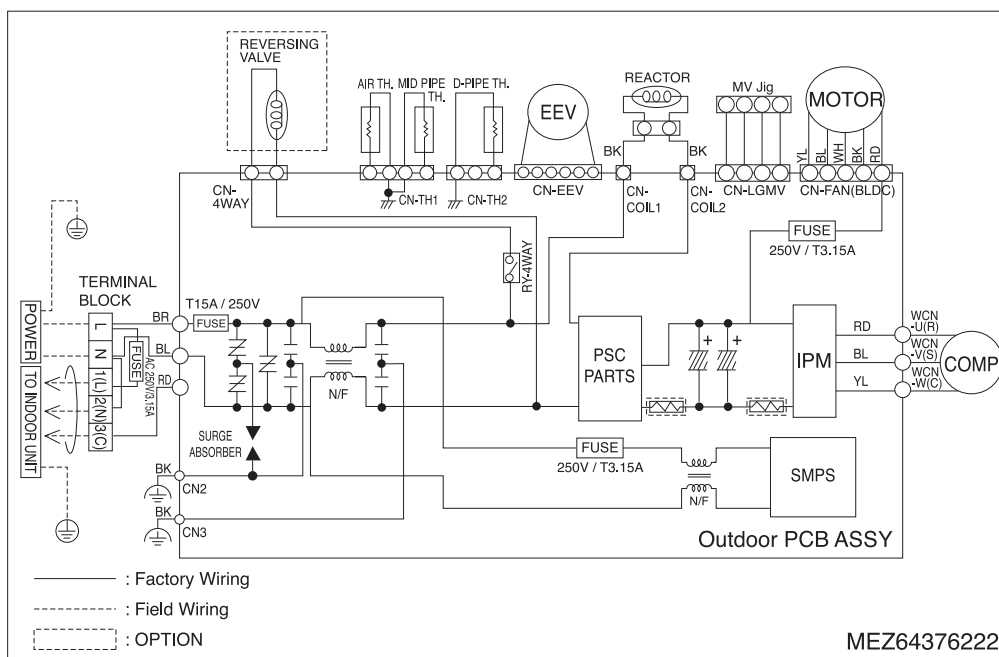
Models: ASUW096BUS3(S09AK),ASUW126BUS3(S12AK)


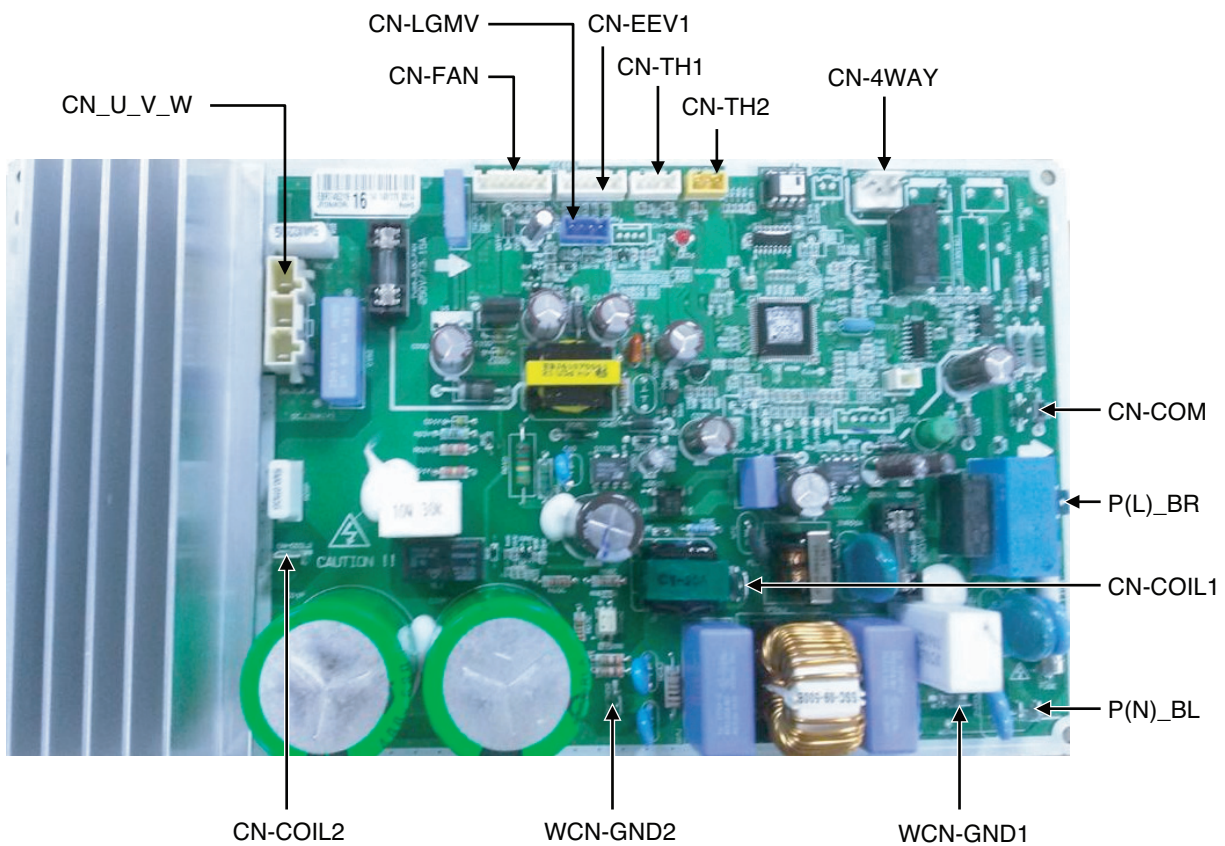
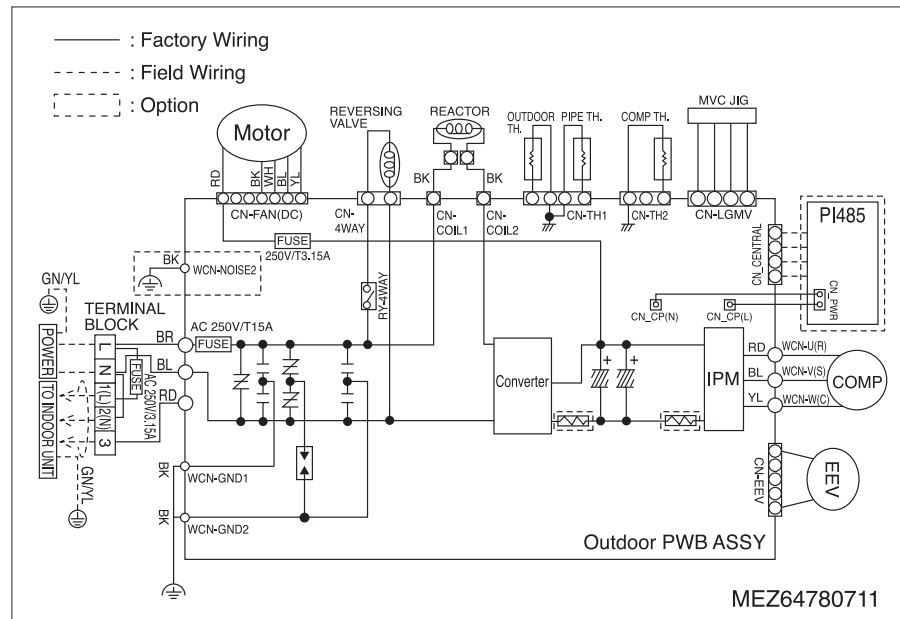
Model: ASUW186CRR4(A18RL)



Models: USUW096H4A0(E09EL),USUW126H4A0(E12EL)


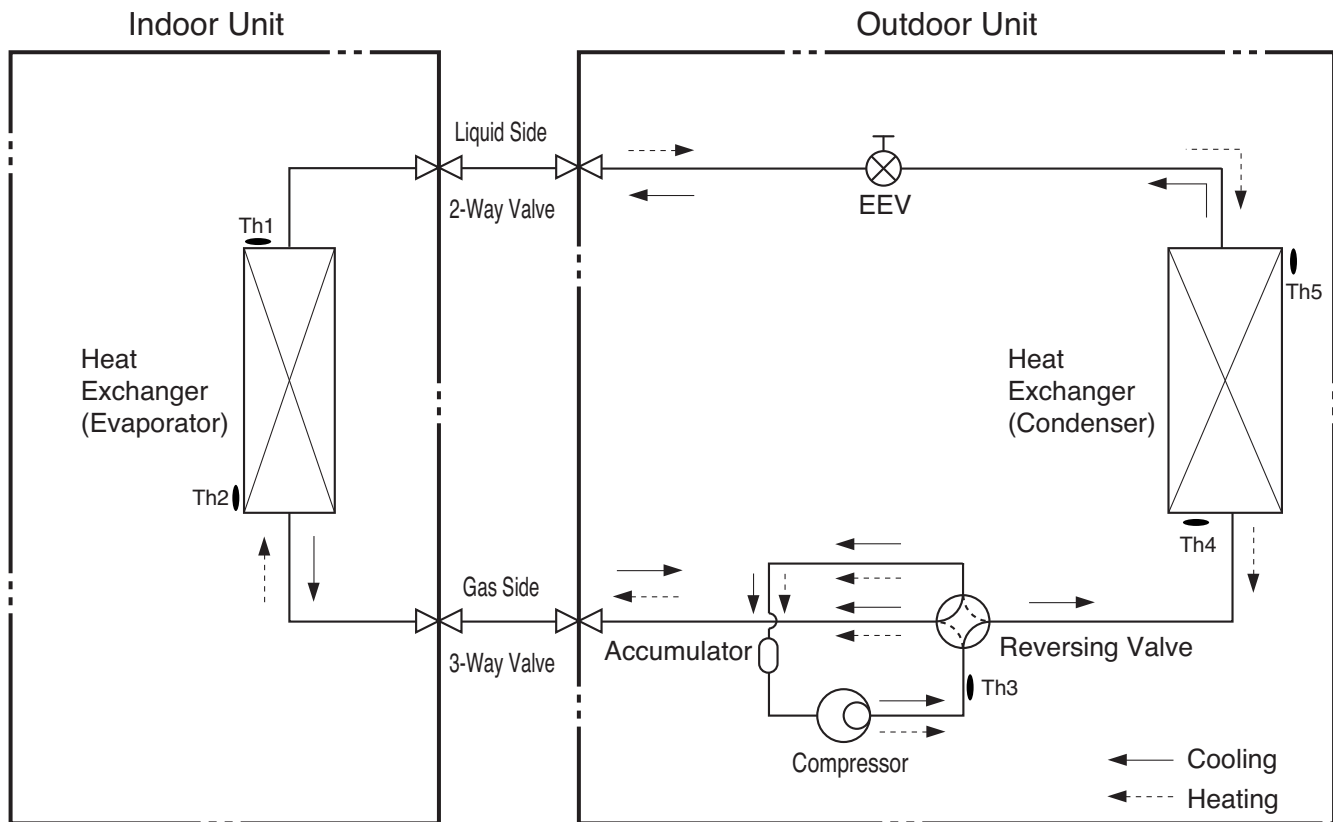
Models: ASUW096NRR0(A09LL), ASUW126NRR0(A12LL)



Models: AS-W1862EF0(P18EL), AS-W1862WR0(D18RL)


6. Refrigerant cycle diagram

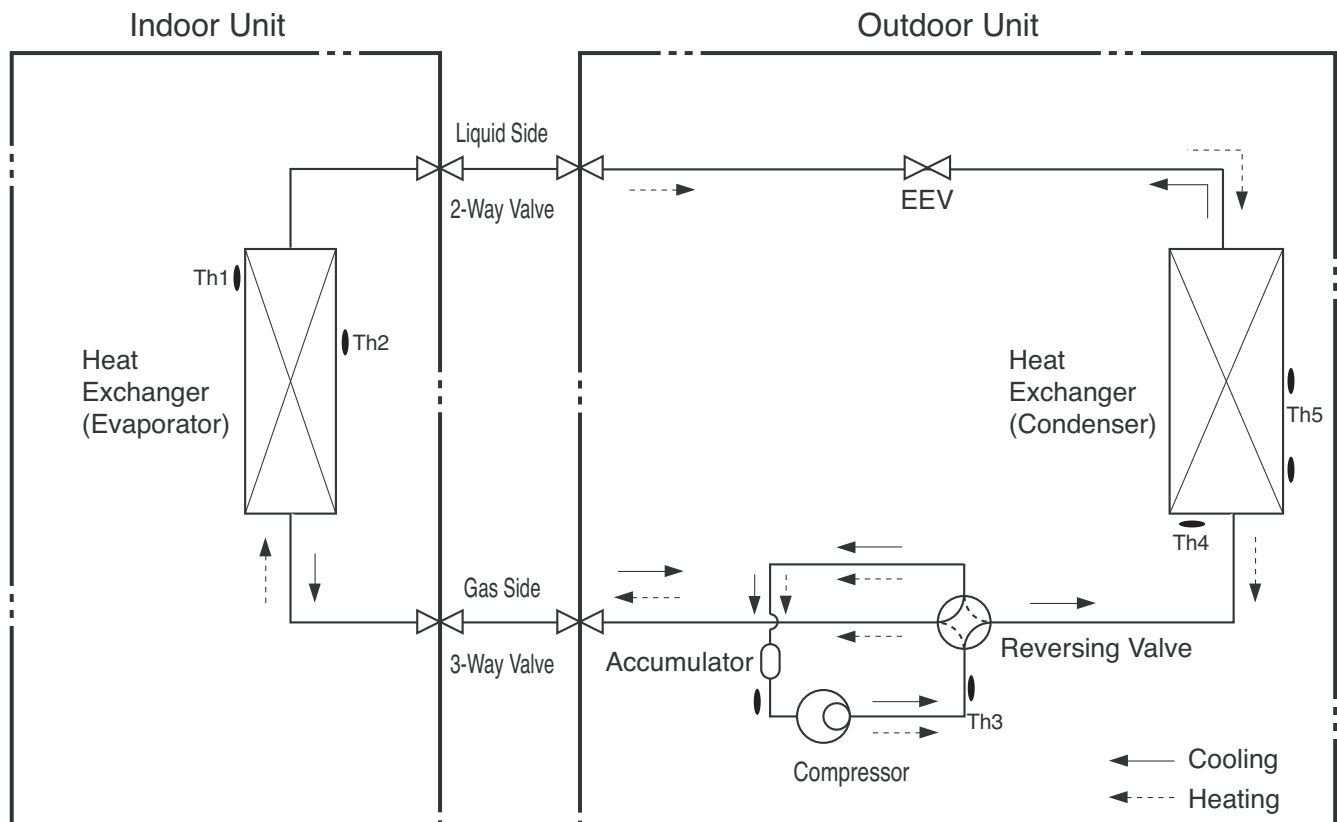
Models: AS-W0963WB0(G09WL), AS-W1263WB0(G12WL)



LOC	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CH_TH1(INDOOR)
Th2	Thermistor for evaporating temperature	CH_TH2(INDOOR)
Th3	Thermistor for discharge pipe temperature	CN_TH2(OUTDOOR)
Th4	Thermistor for condensing temperature	CN_TH1(OUTDOOR)
Th5	Thermistor for outdoor air temperature	

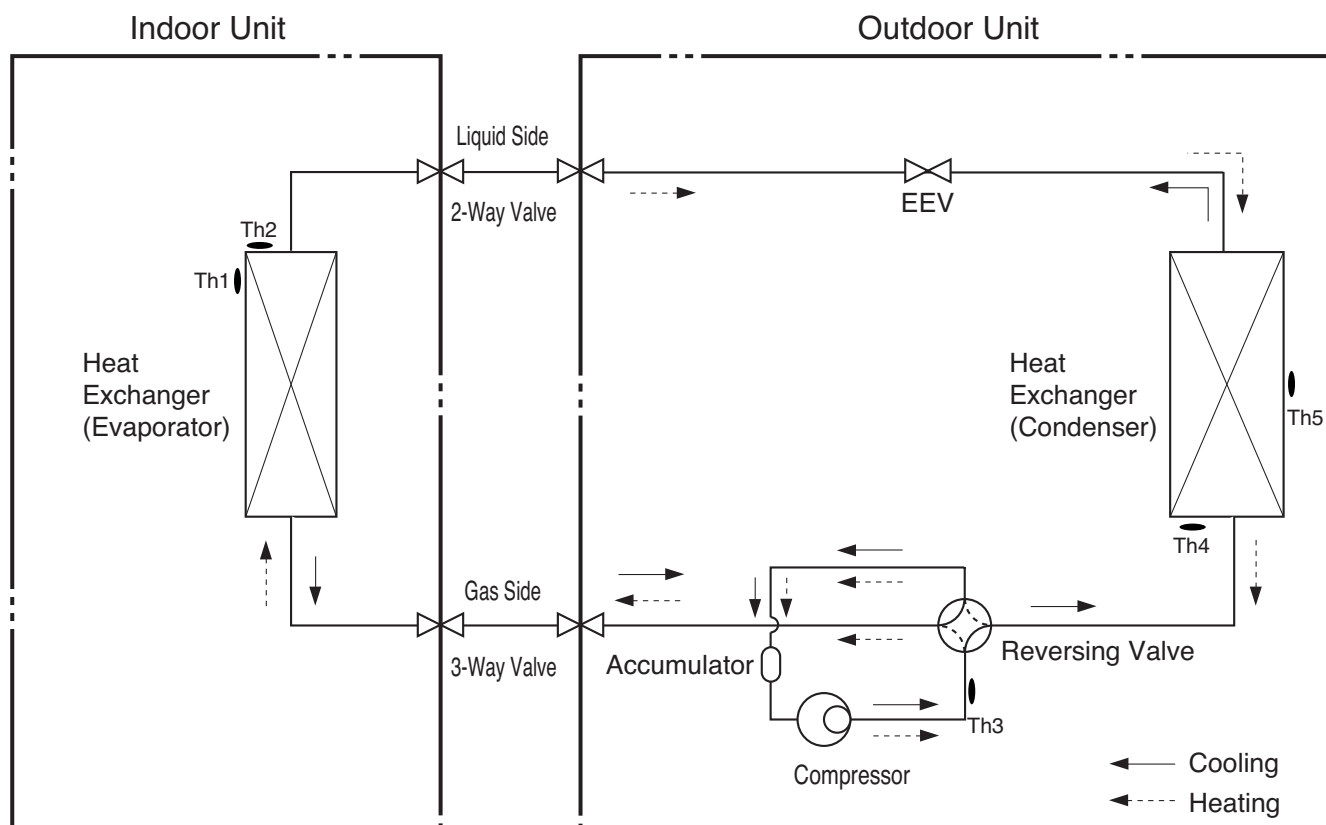
* EEV : Electronic Expansion Valve.

**Models: AS-W1862EF0(P18EL), AS-W2462EF0(P24EL), AS-W1862WR0(D18RL)
AS-W2462WR0(D24RL)**



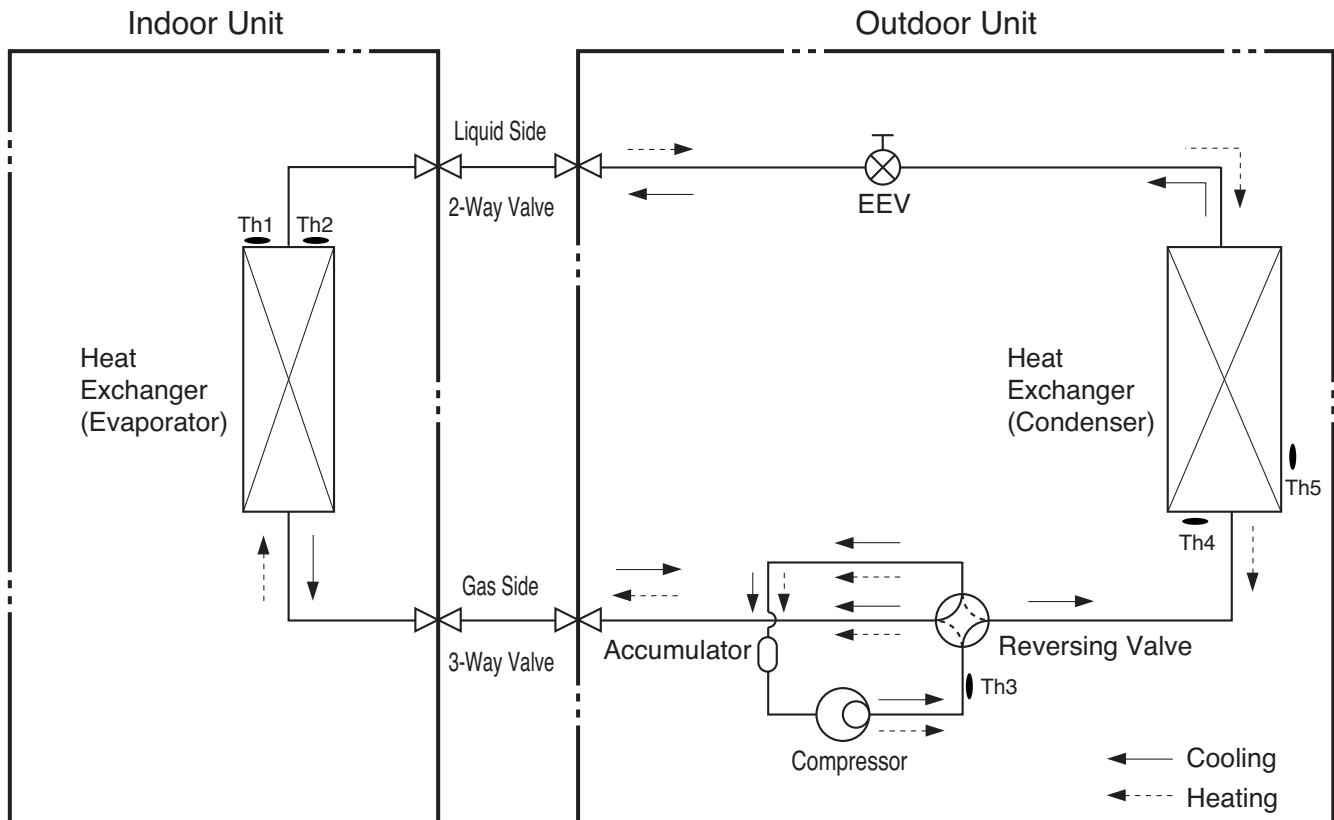
LOC	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CH_TH1(INDOOR)
Th2	Thermistor for evaporating temperature	CH_TH2(INDOOR)
Th3	Thermistor for discharge pipe temperature	CN_TH2(OUTDOOR)
Th4	Thermistor for condensing temperature	CN_TH1(OUTDOOR)
Th5	Thermistor for outdoor air temperature	

* EEV : Electronic Expansion Valve.

Models: AS-W096MMS3(H09AK),AS-W126MMS3(H12AK)


LOC.		Description	PCB Connector
Th1	263230A	Thermistor for evaporator inlet temperature	CN-TH3(Indoor)
Th2	263230C	Thermistor for indoor air temperature	CN-TH1(Indoor)
Th3	263230B	Thermistor for discharge pipe temperature	CN-TH2(OUTDOOR)
Th4	263230A	Thermistor for condensing outlet temperature	CN-TH1(OUTDOOR)
Th5	263230C	Thermistor for outdoorair temperature	

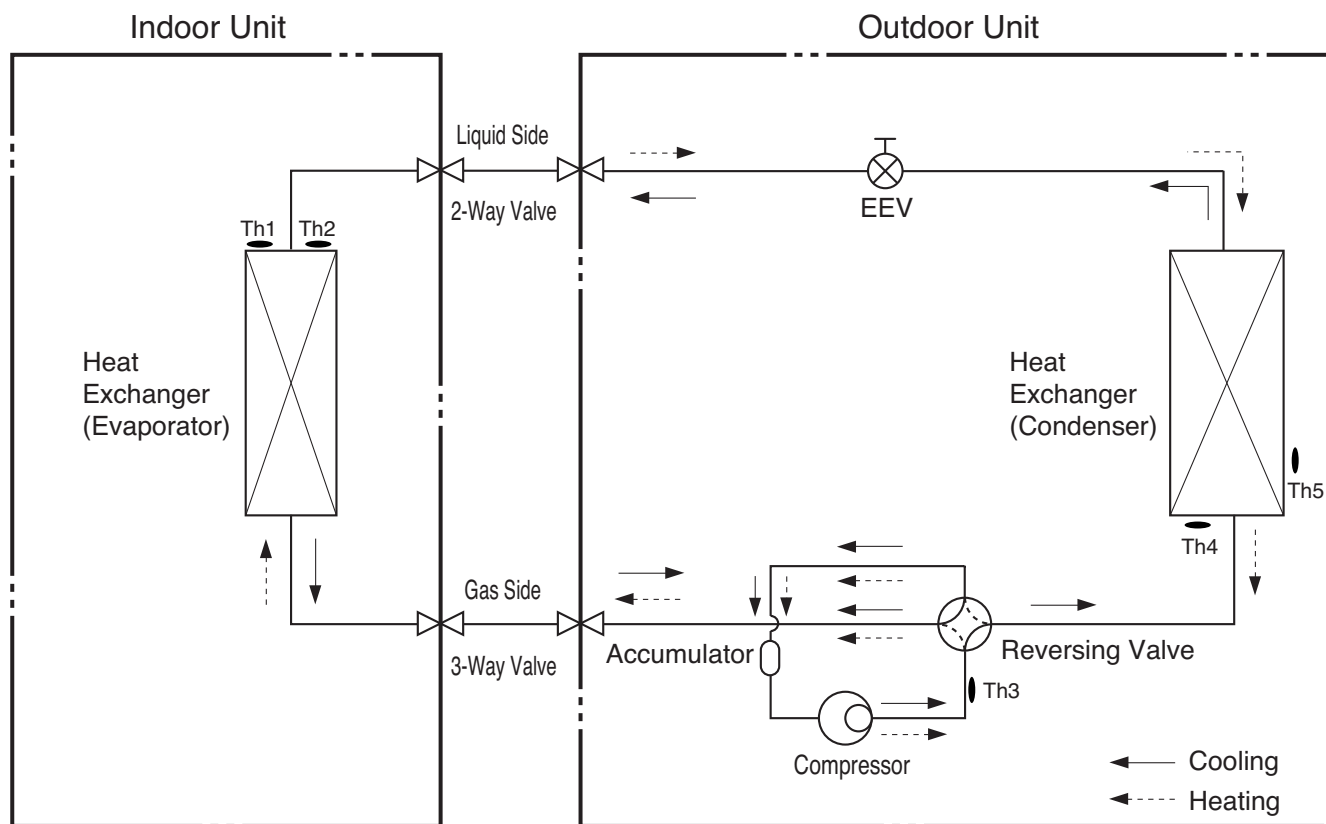
※ EEV : Electronic Expansion Valve

Models: AS-W096BNR3(D09AK),AS-W126BNR3(D12AK)


LOC	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CH_TH1(INDOOR)
Th2	Thermistor for evaporating temperature	CH_TH3(INDOOR)
Th3	Thermistor for discharge pipe temperature	CN_TH2(OUTDOOR)
Th4	Thermistor for condensing temperature	CN_TH1(OUTDOOR)
Th5	Thermistor for outdoor air temperature	

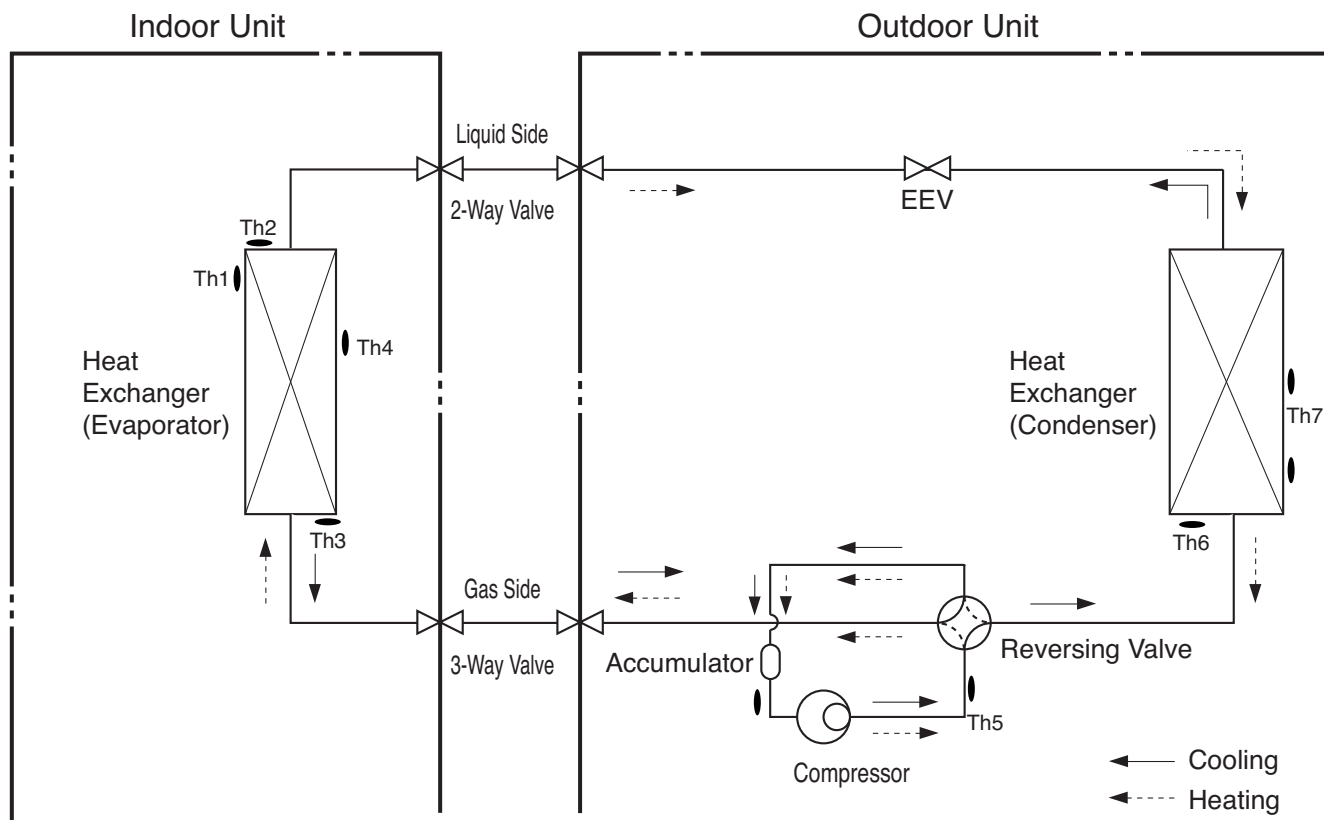
* EEV : Electronic Expansion Valve.

**Models: AS-W096BWR4(A09WL),AS-W126BWR4(A12WL),AS-W096BRR4(A09RL)
AS-W126BRR4(A12RL)**



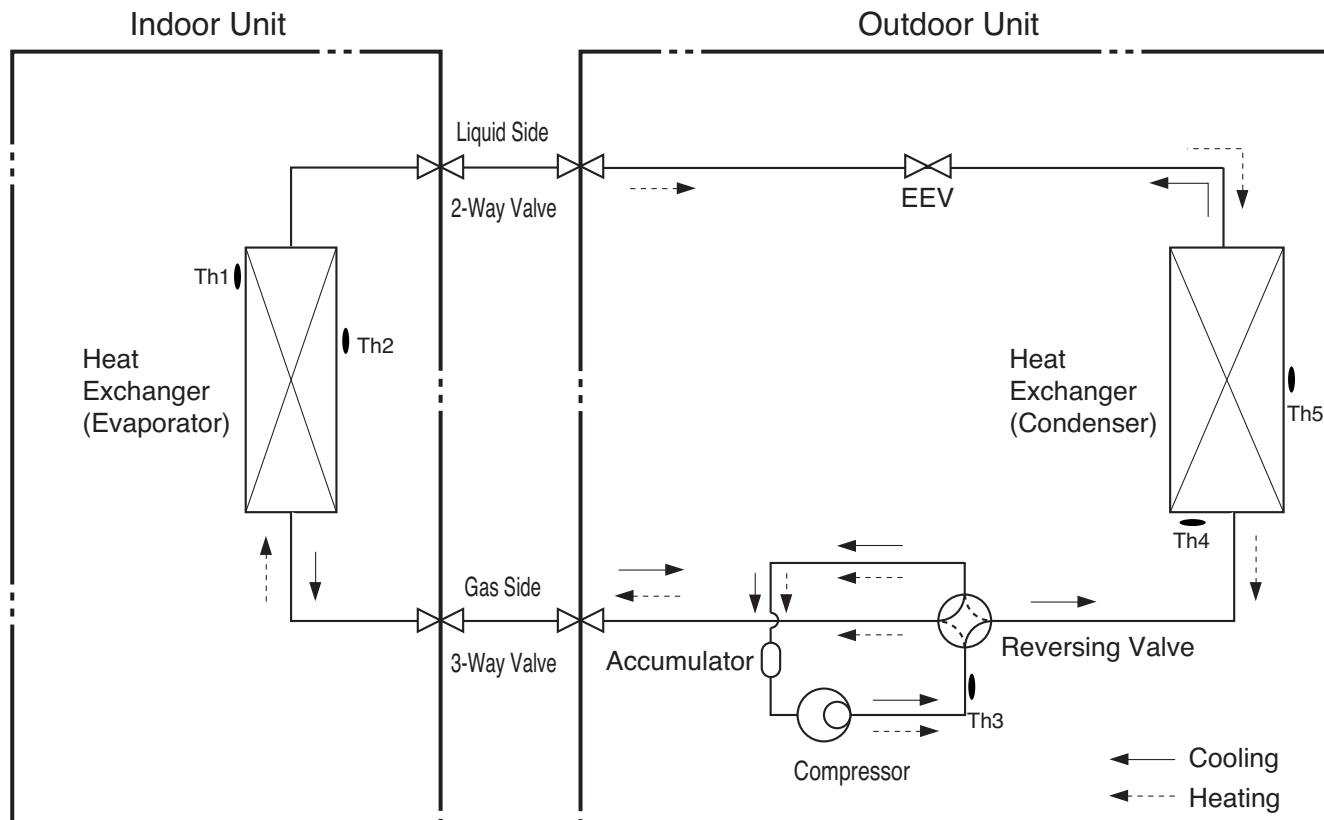
LOC	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CH_TH1(INDOOR)
Th2	Thermistor for evaporating temperature	CH_TH3(INDOOR)
Th3	Thermistor for discharge pipe temperature	CN_TH2(OUTDOOR)
Th4	Thermistor for condensing temperature	CN_TH1(OUTDOOR)
Th5	Thermistor for outdoor air temperature	

* EEV : Electronic Expansion Valve.

Model: AS-W186CRR4(A18RL)

LOC.	Description	PCB Connector
Th1	Thermistor for suction air temperature	CN-TH1(Indoor)
Th2	Thermistor for evaporator inlet temperature	
Th3	Thermistor for evaporator outlet temperature	CN-TH2(Indoor)
Th4	Thermistor for evaporator middle temperature	CN-TH3(Indoor)
Th5	Thermistor for discharge pipe temperature	CN-TH3(OUTDOOR)
Th6	Thermistor for condensing temperature	CN-TH2(OUTDOOR)
Th7	Thermistor for outdoor air temperature	

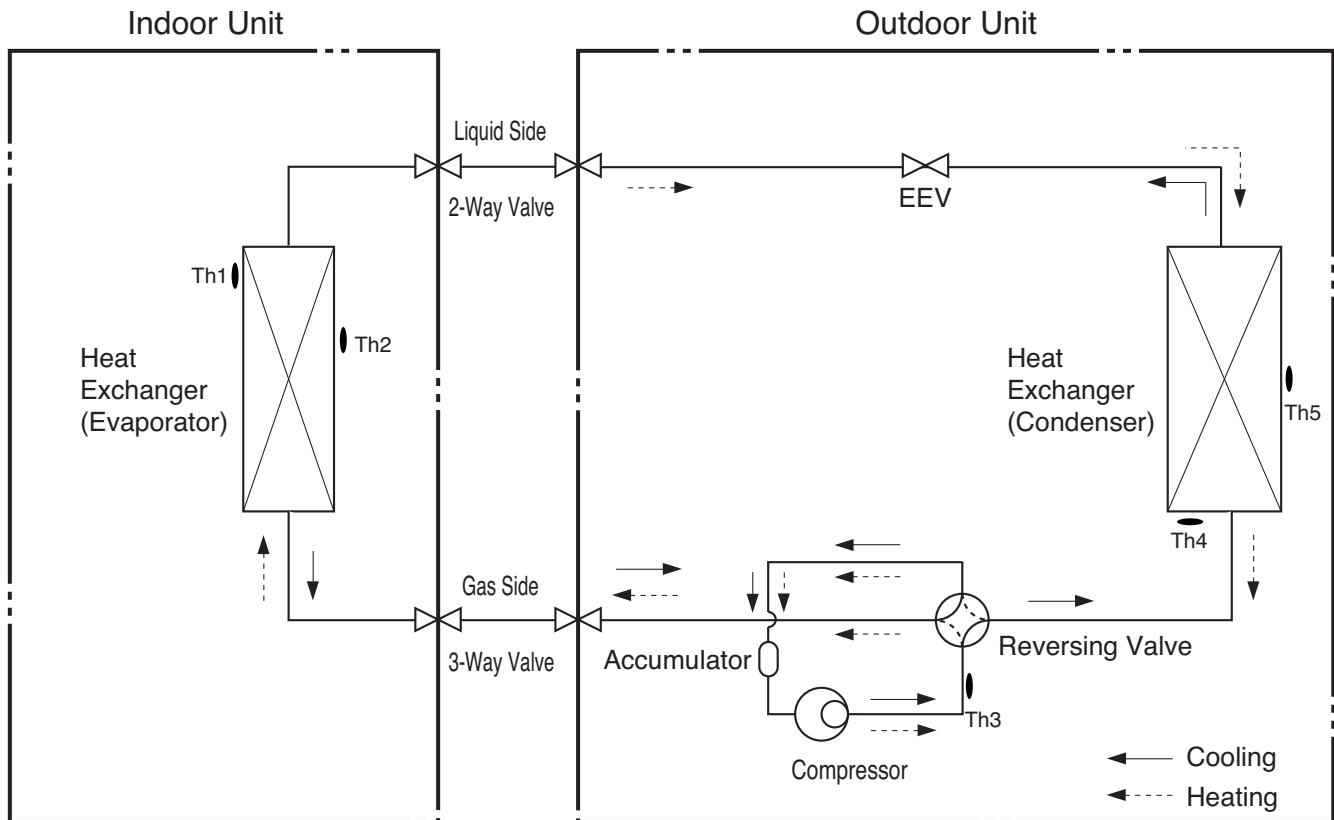
※ EEV : Electronic Expansion Valve

Models: US-W096B8F0(P09RL),US-W126B8F0(P12RL)


LOC.	Description	PCB Connector
Th1	Thermistor for air temperature	CN-TH1(Indoor)
Th2	Thermistor for evaporator middle temperature	CN-TH2(Indoor)
Th3	Thermistor for discharge pipe temperature	CN-TH2(OUTDOOR)
Th4	Thermistor for condensing temperature	CN-TH1(OUTDOOR)
Th5	Thermistor for outdoor air temperature	CN-TH1(OUTDOOR)

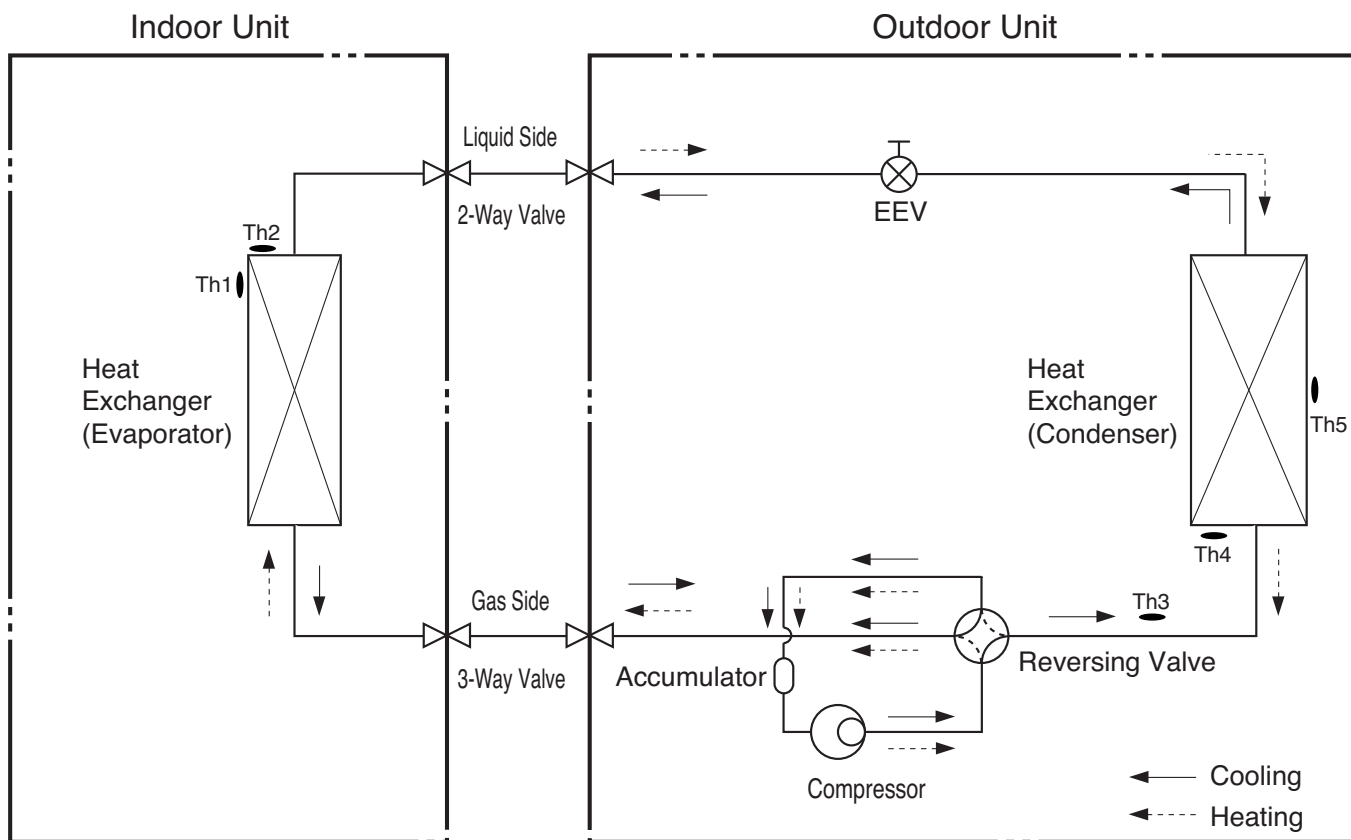
* EEV : Electronic Expansion Valve

**Models: US-W096H4A0(E09EL),US-W126H4A0(E12EL),US-W096HSA0(Z09SL)
US-W126HSA0(Z12SL)**



LOC.	Description	PCB Connector
Th1	Thermistor for air temperature	CN-TH1(Indoor)
Th2	Thermistor for evaporator middle temperature	CN-TH2(Indoor)
Th3	Thermistor for discharge pipe temperature	CN-TH2(OUTDOOR)
Th4	Thermistor for condensing temperature	CN-TH1(OUTDOOR)
Th5	Thermistor for outdoor air temperature	CN-TH1(OUTDOOR)

☒ EEV : Electronic Expansion Valve

Models: AS-W096NRR0(A09LL), AS-W126NRR0(A12LL)


LOC.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1(INDOOR)
Th2	Thermistor for evaporating temperature	CN-TH2(INDOOR)
Th3	Thermistor for discharge pipe temperature	CN-TH2(OUTDOOR)
Th4	Thermistor for condensing temperature	CN-TH1(OUTDOOR)
Th5	Thermistor for outdoor air temperature	CN-TH1(OUTDOOR)

* EEV : Electronic Expansion Valve.

7. Capacity tables

7.1 Cooling Capacity

Model: AS-W0963WB0(G09WL)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.45	2.31	0.43	2.34	2.34	0.45	2.20	2.39	0.60	2.13	2.38	0.67
16	22	2.60	2.20	0.58	2.49	2.23	0.59	2.35	2.28	0.71	2.28	2.27	0.77
18	25	2.75	2.10	0.63	2.65	2.12	0.64	2.50	2.17	0.75	2.43	2.16	0.79
19	27	2.83	2.06	0.64	2.72	2.09	0.64	2.58	2.13	0.76	2.50	2.13	0.78
22	30	3.05	1.95	0.64	2.95	1.97	0.66	2.80	2.01	0.77	2.73	2.01	0.82
24	32	3.21	1.89	0.63	3.10	1.91	0.66	2.95	1.95	0.79	2.88	1.95	0.83

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.04	2.41	0.74	1.98	2.39	0.73	1.93	2.39	0.65	1.89	2.41	0.56
16	22	2.19	2.30	0.80	2.13	2.28	0.76	2.08	2.28	0.66	2.04	2.30	0.55
18	25	2.34	2.19	0.81	2.28	2.18	0.76	2.23	2.17	0.64	2.19	2.19	0.52
19	27	2.41	2.15	0.81	2.36	2.14	0.76	2.30	2.13	0.64	2.26	2.15	0.51
22	30	2.64	2.03	0.82	2.58	2.02	0.76	2.52	2.01	0.64	2.49	2.03	0.51
24	32	2.78	1.98	0.84	2.73	1.96	0.78	2.67	1.95	0.65	2.63	1.97	0.52

Model: AS-W1263WB0(G12WL)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.43	3.23	0.60	3.28	3.27	0.63	3.08	3.34	0.84	2.99	3.33	0.94
16	22	3.64	3.08	0.82	3.49	3.12	0.82	3.29	3.19	1.00	3.20	3.18	1.07
18	25	3.85	2.94	0.88	3.70	2.97	0.89	3.50	3.04	1.05	3.40	3.03	1.11
19	27	3.96	2.89	0.89	3.81	2.92	0.90	3.61	2.99	1.06	3.50	2.98	1.09
22	30	4.28	2.73	0.89	4.12	2.76	0.92	3.92	2.82	1.08	3.82	2.81	1.14
24	32	4.49	2.65	0.89	4.33	2.68	0.92	4.13	2.74	1.10	4.03	2.73	1.17

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.86	3.38	1.03	2.78	3.35	1.01	2.70	3.34	0.91	2.65	3.38	0.78
16	22	3.07	3.22	1.11	2.99	3.20	1.06	2.91	3.19	0.92	2.86	3.22	0.77
18	25	3.27	3.07	1.13	3.19	3.05	1.06	3.12	3.04	0.90	3.06	3.07	0.73
19	27	3.38	3.02	1.13	3.30	2.99	1.06	3.22	2.98	0.89	3.17	3.02	0.72
22	30	3.69	2.85	1.15	3.61	2.83	1.07	3.53	2.82	0.89	3.48	2.85	0.71
24	32	3.90	2.77	1.18	3.82	2.74	1.09	3.74	2.74	0.91	3.69	2.76	0.73

Symbol

DB : Dry Bulb Temperature [(°C)]
 WB : Wet Bulb Temperature [(°C)]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ indoor fan motor + outdoor fan motor)

Notes

1. All capacities are net, evaporator fan motor heat is deducted.
2. ■ Indicates reference data. When operating at this temperature, these values can be different by discontinuous operation.
3. Direct interpolation is permissible. Do not extrapolate
4. Capacities are based on the following conditions:
 Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB
 - Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Model: AS-W2462EF0(P24EL), AS-W2462WR0(D24RL)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	6.67	6.28	1.21	6.38	6.35	1.27	5.99	6.49	1.70	5.81	6.47	1.90
16	22	7.08	5.99	1.64	6.79	6.06	1.66	6.39	6.20	2.00	6.21	6.17	2.15
18	25	7.49	5.71	1.78	7.19	5.78	1.79	6.80	5.91	2.10	6.61	5.89	2.23
19	27	7.69	5.61	1.80	7.40	5.67	1.81	7.00	5.80	2.13	6.80	5.78	2.19
22	30	8.31	5.30	1.80	8.01	5.36	1.84	7.61	5.48	2.18	7.42	5.46	2.30
24	32	8.72	5.14	1.79	8.42	5.20	1.86	8.02	5.32	2.22	7.83	5.30	2.35

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.55	6.56	2.08	5.40	6.51	2.04	5.25	6.49	1.83	5.14	6.56	1.58
16	22	5.96	6.26	2.24	5.80	6.21	2.13	5.65	6.19	1.85	5.55	6.26	1.55
18	25	6.36	5.97	2.27	6.21	5.92	2.13	6.05	5.91	1.81	5.95	5.97	1.47
19	27	6.56	5.86	2.28	6.41	5.81	2.13	6.26	5.80	1.79	6.16	5.86	1.45
22	30	7.17	5.53	2.32	7.02	5.49	2.15	6.86	5.48	1.79	6.76	5.53	1.43
24	32	7.57	5.37	2.37	7.42	5.33	2.20	7.27	5.31	1.84	7.17	5.37	1.47

Model: AS-W096MMS3(H09AK)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.47	2.12	0.25	2.36	2.05	0.27	2.22	1.97	0.36	2.15	1.90	0.40
16	22	2.62	2.15	0.34	2.51	2.08	0.35	2.37	2.01	0.42	2.30	1.94	0.45
18	25	2.78	2.17	0.37	2.67	2.11	0.37	2.52	2.03	0.44	2.45	1.97	0.46
19	27	2.85	2.19	0.38	2.74	2.13	0.38	2.60	2.06	0.45	2.52	1.99	0.46
22	30	3.08	2.23	0.38	2.97	2.17	0.39	2.82	2.11	0.46	2.75	2.05	0.48
24	32	3.23	2.27	0.37	3.12	2.22	0.39	2.97	2.16	0.47	2.90	2.10	0.49

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.06	1.84	0.44	2.00	1.78	0.43	1.94	1.72	0.38	1.89	1.71	0.39
16	22	2.21	1.89	0.47	2.15	1.83	0.45	2.09	1.77	0.39	2.04	1.76	0.38
18	25	2.36	1.92	0.48	2.30	1.86	0.45	2.24	1.81	0.38	2.19	1.80	0.37
19	27	2.43	1.95	0.48	2.38	1.89	0.45	2.32	1.84	0.38	2.26	1.83	0.36
22	30	2.66	2.01	0.49	2.60	1.95	0.45	2.54	1.90	0.38	2.49	1.90	0.36
24	32	2.81	2.06	0.50	2.75	2.00	0.46	2.69	1.96	0.39	2.64	1.95	0.37

Symbol

DB : Dry Bulb Temperature [(°C)]
 WB : Wet Bulb Temperature [(°C)]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ indoor fan motor + outdoor fan motor)

Notes

1. All capacities are net, evaporator fan motor heat is deducted.
2. ■ Indicates reference data. When operating at this temperature, these values can be different by discontinuous operation.
3. Direct interpolation is permissible. Do not extrapolate
4. Capacities are based on the following conditions:
 Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB
 - Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Model: AS-W126MMS3(H12AK)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.43	2.95	0.43	3.28	2.85	0.45	3.08	2.73	0.60	2.99	2.64	0.67
16	22	3.64	2.98	0.58	3.49	2.89	0.59	3.29	2.79	0.71	3.20	2.70	0.77
18	25	3.85	3.01	0.63	3.70	2.92	0.64	3.50	2.83	0.75	3.40	2.74	0.78
19	27	3.96	3.04	0.64	3.81	2.95	0.64	3.61	2.86	0.76	3.50	2.77	0.78
22	30	4.28	3.10	0.64	4.12	3.02	0.66	3.92	2.93	0.77	3.82	2.85	0.82
24	32	4.49	3.15	0.63	4.33	3.08	0.66	4.13	3.00	0.79	4.03	2.92	0.83

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.86	2.56	0.74	2.78	2.47	0.73	2.70	2.40	0.65	2.63	2.37	0.62
16	22	3.07	2.62	0.80	2.99	2.54	0.76	2.91	2.46	0.66	2.84	2.44	0.61
18	25	3.27	2.67	0.81	3.19	2.59	0.76	3.12	2.52	0.64	3.04	2.50	0.58
19	27	3.38	2.71	0.81	3.30	2.62	0.76	3.22	2.55	0.64	3.15	2.54	0.57
22	30	3.69	2.79	0.82	3.61	2.71	0.76	3.53	2.64	0.64	3.46	2.63	0.57
24	32	3.90	2.86	0.84	3.82	2.78	0.78	3.74	2.72	0.65	3.67	2.71	0.58

Model: AS-W096BNR3(D09AK)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.45	2.10	0.30	2.34	2.04	0.32	2.20	1.95	0.43	2.13	1.89	0.48
16	22	2.60	2.13	0.41	2.49	2.07	0.42	2.35	1.99	0.50	2.28	1.93	0.54
18	25	2.75	2.15	0.45	2.65	2.09	0.45	2.50	2.02	0.53	2.43	1.96	0.55
19	27	2.83	2.17	0.45	2.72	2.11	0.45	2.58	2.04	0.53	2.50	1.98	0.55
22	30	3.05	2.21	0.45	2.95	2.16	0.46	2.80	2.10	0.55	2.73	2.04	0.58
24	32	3.21	2.25	0.45	3.10	2.20	0.47	2.95	2.14	0.56	2.88	2.08	0.59

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.04	1.83	0.52	1.98	1.77	0.51	1.93	1.71	0.46	1.87	1.70	0.46
16	22	2.19	1.87	0.56	2.13	1.81	0.54	2.08	1.76	0.46	2.02	1.75	0.45
18	25	2.34	1.91	0.57	2.28	1.85	0.53	2.23	1.80	0.45	2.17	1.79	0.43
19	27	2.41	1.93	0.57	2.36	1.87	0.53	2.30	1.82	0.45	2.24	1.81	0.42
22	30	2.64	1.99	0.58	2.58	1.94	0.54	2.52	1.89	0.45	2.47	1.88	0.42
24	32	2.78	2.04	0.59	2.73	1.99	0.55	2.67	1.94	0.46	2.61	1.93	0.43

Symbol

DB : Dry Bulb Temperature [(°C)]
 WB : Wet Bulb Temperature [(°C)]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ indoor fan motor + outdoor fan motor)

Notes

1. All capacities are net, evaporator fan motor heat is deducted.
2. ■ Indicates reference data. When operating at this temperature, these values can be different by discontinuous operation.
3. Direct interpolation is permissible. Do not extrapolate
4. Capacities are based on the following conditions:
 Cooling : - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB
 - Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Model: AS-W126BNR3(D12AK)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.43	2.95	0.49	3.28	2.85	0.51	3.08	2.73	0.68	2.99	2.64	0.76
16	22	3.64	2.98	0.66	3.49	2.89	0.66	3.29	2.79	0.80	3.20	2.70	0.86
18	25	3.85	3.01	0.71	3.70	2.92	0.72	3.50	2.83	0.84	3.40	2.74	0.88
19	27	3.96	3.04	0.72	3.81	2.95	0.73	3.61	2.86	0.85	3.50	2.77	0.88
22	30	4.28	3.10	0.72	4.12	3.02	0.74	3.92	2.93	0.87	3.82	2.85	0.92
24	32	4.49	3.15	0.72	4.33	3.08	0.75	4.13	3.00	0.89	4.03	2.92	0.94

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.86	2.56	0.84	2.78	2.47	0.82	2.70	2.40	0.73	2.63	2.37	0.69
16	22	3.07	2.62	0.90	2.99	2.54	0.86	2.91	2.46	0.74	2.84	2.44	0.68
18	25	3.27	2.67	0.91	3.19	2.59	0.86	3.12	2.52	0.73	3.04	2.50	0.65
19	27	3.38	2.71	0.92	3.30	2.62	0.85	3.22	2.55	0.72	3.15	2.54	0.64
22	30	3.69	2.79	0.93	3.61	2.71	0.86	3.53	2.64	0.72	3.46	2.63	0.63
24	32	3.90	2.86	0.95	3.82	2.78	0.88	3.74	2.72	0.74	3.67	2.71	0.65

Models: AS-W096BWR4(A09WL), AS-W096BRR4(A09RL), US-W096B8F0(P09RL)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.45	2.10	0.37	2.34	2.04	0.39	2.20	1.95	0.52	2.13	1.89	0.58
16	22	2.60	2.13	0.50	2.49	2.07	0.51	2.35	1.99	0.61	2.28	1.93	0.66
18	25	2.75	2.15	0.54	2.65	2.09	0.55	2.50	2.02	0.64	2.43	1.96	0.67
19	27	2.83	2.17	0.55	2.72	2.11	0.55	2.58	2.04	0.65	2.50	1.98	0.67
22	30	3.05	2.21	0.55	2.95	2.16	0.56	2.80	2.10	0.67	2.73	2.04	0.70
24	32	3.21	2.25	0.55	3.10	2.20	0.57	2.95	2.14	0.68	2.88	2.08	0.72

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.04	1.83	0.64	1.98	1.77	0.62	1.93	1.71	0.56	1.87	1.70	0.54
16	22	2.19	1.87	0.69	2.13	1.81	0.65	2.08	1.76	0.57	2.02	1.75	0.53
18	25	2.34	1.91	0.69	2.28	1.85	0.65	2.23	1.80	0.55	2.17	1.79	0.51
19	27	2.41	1.93	0.70	2.36	1.87	0.65	2.30	1.82	0.55	2.24	1.81	0.50
22	30	2.64	1.99	0.71	2.58	1.94	0.66	2.52	1.89	0.55	2.47	1.88	0.50
24	32	2.78	2.04	0.72	2.73	1.99	0.67	2.67	1.94	0.56	2.61	1.93	0.51

Symbol

DB : Dry Bulb Temperature [(°C)]
 WB : Wet Bulb Temperature [(°C)]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ indoor fan motor + outdoor fan motor)

Notes

1. All capacities are net, evaporator fan motor heat is deducted.
2. ■ Indicates reference data. When operating at this temperature, these values can be different by discontinuous operation.
3. Direct interpolation is permissible. Do not extrapolate
4. Capacities are based on the following conditions:
 Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB
 - Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Models: AS-W126BWR4(A12WL), AS-W126BRR4(A12RL), US-W126B8F0(P12RL)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.43	2.95	0.60	3.28	2.85	0.62	3.08	2.73	0.84	2.99	2.64	0.93
16	22	3.64	2.98	0.81	3.49	2.89	0.82	3.29	2.79	0.99	3.20	2.70	1.06
18	25	3.85	3.01	0.87	3.70	2.92	0.88	3.50	2.83	1.04	3.40	2.74	1.08
19	27	3.96	3.04	0.88	3.81	2.95	0.89	3.61	2.86	1.05	3.50	2.77	1.08
22	30	4.28	3.10	0.88	4.12	3.02	0.91	3.92	2.93	1.07	3.82	2.85	1.13
24	32	4.49	3.15	0.88	4.33	3.08	0.92	4.13	3.00	1.09	4.03	2.92	1.15

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.86	2.56	1.03	2.78	2.47	1.00	2.70	2.40	0.90	2.63	2.37	0.84
16	22	3.07	2.62	1.10	2.99	2.54	1.05	2.91	2.46	0.91	2.84	2.44	0.82
18	25	3.27	2.67	1.12	3.19	2.59	1.05	3.12	2.52	0.89	3.04	2.50	0.79
19	27	3.38	2.71	1.12	3.30	2.62	1.05	3.22	2.55	0.88	3.15	2.54	0.77
22	30	3.69	2.79	1.14	3.61	2.71	1.06	3.53	2.64	0.88	3.46	2.63	0.76
24	32	3.90	2.86	1.17	3.82	2.78	1.08	3.74	2.72	0.90	3.67	2.71	0.78

Model: AS-W186CRR4(A18RL)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.10	4.38	0.83	4.88	4.23	0.87	4.58	4.06	1.16	4.44	3.93	1.30
16	22	5.41	4.43	1.12	5.19	4.30	1.13	4.89	4.14	1.37	4.75	4.01	1.47
18	25	5.73	4.47	1.21	5.50	4.35	1.22	5.20	4.20	1.44	5.06	4.07	1.50
19	27	5.88	4.51	1.23	5.66	4.39	1.24	5.36	4.25	1.45	5.20	4.11	1.50
22	30	6.35	4.60	1.23	6.13	4.49	1.26	5.82	4.36	1.49	5.68	4.23	1.57
24	32	6.67	4.69	1.22	6.44	4.58	1.27	6.13	4.46	1.52	5.99	4.33	1.60

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	4.24	3.81	1.42	4.13	3.67	1.40	4.01	3.56	1.25	3.91	3.53	1.14
16	22	4.55	3.90	1.53	4.44	3.77	1.46	4.32	3.66	1.27	4.22	3.63	1.12
18	25	4.86	3.97	1.56	4.75	3.84	1.46	4.63	3.74	1.24	4.53	3.71	1.07
19	27	5.02	4.02	1.56	4.90	3.90	1.45	4.78	3.79	1.23	4.69	3.77	1.05
22	30	5.48	4.15	1.58	5.37	4.03	1.47	5.25	3.93	1.23	5.15	3.91	1.04
24	32	5.79	4.25	1.62	5.67	4.13	1.50	5.56	4.04	1.26	5.46	4.02	1.07

Symbol

DB : Dry Bulb Temperature [(°C)]
 WB : Wet Bulb Temperature [(°C)]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ indoor fan motor + outdoor fan motor)

Notes

- All capacities are net, evaporator fan motor heat is deducted.
- Indicates reference data. When operating at this temperature, these values can be different by discontinuous operation.
- Direct interpolation is permissible. Do not extrapolate
- Capacities are based on the following conditions:
 Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB
 - Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Models: US-W096H4A0(E09EL), US-W096HSA0(Z09SL)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.45	2.10	0.38	2.34	2.04	0.40	2.20	1.95	0.53	2.13	1.89	0.60
16	22	2.60	2.13	0.52	2.49	2.07	0.52	2.35	1.99	0.63	2.28	1.93	0.68
18	25	2.75	2.15	0.56	2.65	2.09	0.56	2.50	2.02	0.66	2.43	1.96	0.69
19	27	2.83	2.17	0.57	2.72	2.11	0.57	2.58	2.04	0.67	2.50	1.98	0.69
22	30	3.05	2.21	0.57	2.95	2.16	0.58	2.80	2.10	0.69	2.73	2.04	0.72
24	32	3.21	2.25	0.56	3.10	2.20	0.58	2.95	2.14	0.70	2.88	2.08	0.74

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.04	1.83	0.66	1.98	1.77	0.64	1.93	1.71	0.58	1.87	1.70	0.56
16	22	2.19	1.87	0.71	2.13	1.81	0.67	2.08	1.76	0.58	2.02	1.75	0.55
18	25	2.34	1.91	0.72	2.28	1.85	0.67	2.23	1.80	0.57	2.17	1.79	0.52
19	27	2.41	1.93	0.72	2.36	1.87	0.67	2.30	1.82	0.56	2.24	1.81	0.52
22	30	2.64	1.99	0.73	2.58	1.94	0.68	2.52	1.89	0.56	2.47	1.88	0.51
24	32	2.78	2.04	0.74	2.73	1.99	0.69	2.67	1.94	0.58	2.61	1.93	0.52

Models: US-W126H4A0(E12EL), US-W126HSA0(Z12SL)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.43	2.95	0.62	3.28	2.85	0.65	3.08	2.73	0.87	2.99	2.64	0.97
16	22	3.64	2.98	0.84	3.49	2.89	0.85	3.29	2.79	1.02	3.20	2.70	1.10
18	25	3.85	3.01	0.91	3.70	2.92	0.91	3.50	2.83	1.07	3.40	2.74	1.12
19	27	3.96	3.04	0.92	3.81	2.95	0.93	3.61	2.86	1.09	3.50	2.77	1.12
22	30	4.28	3.10	0.92	4.12	3.02	0.94	3.92	2.93	1.11	3.82	2.85	1.17
24	32	4.49	3.15	0.91	4.33	3.08	0.95	4.13	3.00	1.13	4.03	2.92	1.20

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.86	2.56	1.06	2.78	2.47	1.04	2.70	2.40	0.93	2.63	2.37	0.87
16	22	3.07	2.62	1.15	2.99	2.54	1.09	2.91	2.46	0.95	2.84	2.44	0.85
18	25	3.27	2.67	1.16	3.19	2.59	1.09	3.12	2.52	0.92	3.04	2.50	0.81
19	27	3.38	2.71	1.16	3.30	2.62	1.09	3.22	2.55	0.92	3.15	2.54	0.80
22	30	3.69	2.79	1.18	3.61	2.71	1.10	3.53	2.64	0.92	3.46	2.63	0.79
24	32	3.90	2.86	1.21	3.82	2.78	1.12	3.74	2.72	0.94	3.67	2.71	0.81

Symbol

DB : Dry Bulb Temperature [(°C)]
 WB : Wet Bulb Temperature [(°C)]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ indoor fan motor + outdoor fan motor)

Notes

1. All capacities are net, evaporator fan motor heat is deducted.
2. ■ Indicates reference data. When operating at this temperature, these values can be different by discontinuous operation.
3. Direct interpolation is permissible. Do not extrapolate
4. Capacities are based on the following conditions:
 Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB
 - Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Model : AS-W096NRR0(A09LL)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.45	2.10	0.32	2.34	2.04	0.33	2.20	1.95	0.45	2.13	1.89	0.50
16	22	2.60	2.13	0.43	2.49	2.07	0.44	2.35	1.99	0.53	2.28	1.93	0.57
18	25	2.75	2.15	0.47	2.65	2.09	0.47	2.50	2.02	0.56	2.43	1.96	0.58
19	27	2.83	2.17	0.48	2.72	2.11	0.48	2.58	2.04	0.56	2.50	1.98	0.58
22	30	3.05	2.21	0.47	2.95	2.16	0.49	2.80	2.10	0.58	2.73	2.04	0.61
24	32	3.21	2.25	0.47	3.10	2.20	0.49	2.95	2.14	0.59	2.88	2.08	0.62

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.04	1.83	0.55	1.98	1.77	0.54	1.93	1.71	0.48	1.87	1.70	0.48
16	22	2.19	1.87	0.59	2.13	1.81	0.56	2.08	1.76	0.49	2.02	1.75	0.47
18	25	2.34	1.91	0.60	2.28	1.85	0.56	2.23	1.80	0.48	2.17	1.79	0.45
19	27	2.41	1.93	0.60	2.36	1.87	0.56	2.30	1.82	0.47	2.24	1.81	0.44
22	30	2.64	1.99	0.61	2.58	1.94	0.57	2.52	1.89	0.47	2.47	1.88	0.44
24	32	2.78	2.04	0.63	2.73	1.99	0.58	2.67	1.94	0.49	2.61	1.93	0.45

Model: AS-W126NRR0(A12LL)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.43	2.95	0.52	3.28	2.85	0.54	3.08	2.73	0.73	2.99	2.64	0.81
16	22	3.64	2.98	0.70	3.49	2.89	0.71	3.29	2.79	0.86	3.20	2.70	0.92
18	25	3.85	3.01	0.76	3.70	2.92	0.77	3.50	2.83	0.90	3.40	2.74	0.94
19	27	3.96	3.04	0.77	3.81	2.95	0.78	3.61	2.86	0.91	3.50	2.77	0.94
22	30	4.28	3.10	0.77	4.12	3.02	0.79	3.92	2.93	0.93	3.82	2.85	0.99
24	32	4.49	3.15	0.77	4.33	3.08	0.80	4.13	3.00	0.95	4.03	2.92	1.01

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.86	2.56	0.89	2.78	2.47	0.87	2.70	2.40	0.78	2.63	2.37	0.74
16	22	3.07	2.62	0.96	2.99	2.54	0.92	2.91	2.46	0.79	2.84	2.44	0.72
18	25	3.27	2.67	0.98	3.19	2.59	0.91	3.12	2.52	0.78	3.04	2.50	0.69
19	27	3.38	2.71	0.98	3.30	2.62	0.91	3.22	2.55	0.77	3.15	2.54	0.68
22	30	3.69	2.79	0.99	3.61	2.71	0.92	3.53	2.64	0.77	3.46	2.63	0.67
24	32	3.90	2.86	1.01	3.82	2.78	0.94	3.74	2.72	0.79	3.67	2.71	0.69

Symbol

DB : Dry Bulb Temperature [(°C)]
 WB : Wet Bulb Temperature [(°C)]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ indoor fan motor + outdoor fan motor)

Notes

1. All capacities are net, evaporator fan motor heat is deducted.
2. ■ Indicates reference data. When operating at this temperature, these values can be different by discontinuous operation.
3. Direct interpolation is permissible. Do not extrapolate
4. Capacities are based on the following conditions:
 Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB
 - Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Models: AS-W1862EF0(P18EL), AS-W1862WR0(D18RL)

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		20			25			32			35		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	4.90	4.21	0.86	4.69	4.07	0.90	4.40	3.91	1.21	4.27	3.77	1.35
16	22	5.20	4.26	1.17	4.99	4.13	1.18	4.70	3.98	1.43	4.57	3.85	1.53
18	25	5.51	4.30	1.26	5.29	4.18	1.27	5.00	4.04	1.50	4.86	3.91	1.56
19	27	5.66	4.34	1.28	5.44	4.22	1.29	5.15	4.08	1.52	5.00	3.95	1.56
22	30	6.11	4.42	1.28	5.89	4.31	1.31	5.60	4.19	1.55	5.46	4.07	1.64
24	32	6.41	4.51	1.27	6.19	4.40	1.32	5.90	4.28	1.58	5.76	4.17	1.67

Indoor Air Temperature		Outdoor Air Temperature : °CDB											
		40			43			46			48		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	4.08	3.66	1.48	3.97	3.53	1.45	3.86	3.42	1.30	3.76	3.39	1.18
16	22	4.38	3.75	1.60	4.27	3.62	1.52	4.15	3.52	1.32	4.06	3.49	1.16
18	25	4.68	3.82	1.62	4.56	3.69	1.52	4.45	3.59	1.29	4.36	3.57	1.11
19	27	4.83	3.87	1.62	4.71	3.75	1.51	4.60	3.65	1.28	4.51	3.62	1.09
22	30	5.27	3.99	1.65	5.16	3.87	1.53	5.05	3.78	1.28	4.95	3.76	1.08
24	32	5.57	4.09	1.69	5.46	3.97	1.56	5.34	3.88	1.31	5.25	3.87	1.11

Symbol

DB : Dry Bulb Temperature [(°C)]
 WB : Wet Bulb Temperature [(°C)]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ indoor fan motor + outdoor fan motor)

Notes

1. All capacities are net, evaporator fan motor heat is deducted.
2. ■ Indicates reference data. When operating at this temperature, these values can be different by discontinuous operation.
3. Direct interpolation is permissible. Do not extrapolate
4. Capacities are based on the following conditions:
 Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB
 - Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

7.2 Heating Capacity

Model: AS-W0963WB0(G09WL)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	2.26	0.68	2.37	0.66	2.57	0.69	2.75	0.74	3.05	0.79	3.22	0.83	3.50	0.88	3.17	0.73	2.59	0.52
18	2.23	0.69	2.37	0.68	2.58	0.71	2.75	0.76	3.03	0.81	3.18	0.84	3.49	0.89	3.10	0.73	2.47	0.51
20	2.22	0.70	2.37	0.69	2.58	0.73	2.74	0.78	3.00	0.83	3.16	0.86	3.49	0.90	3.04	0.72	2.33	0.49
21	2.21	0.71	2.37	0.70	2.58	0.74	2.73	0.79	2.98	0.84	3.16	0.86	3.47	0.90	2.99	0.72	2.24	0.48
22	2.21	0.71	2.37	0.71	2.58	0.75	2.73	0.80	2.96	0.85	3.16	0.87	3.44	0.90	2.92	0.71	2.14	0.46
24	2.18	0.73	2.35	0.73	2.54	0.77	2.70	0.82	2.94	0.86	3.10	0.87	3.40	0.90	2.80	0.70	1.93	0.44

Model: AS-W1263WB0(G12WL)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	2.63	0.79	2.77	0.77	3.00	0.81	3.21	0.87	3.56	0.93	3.76	0.97	4.08	1.03	3.70	0.85	3.02	0.61
18	2.61	0.80	2.76	0.79	3.00	0.83	3.20	0.89	3.53	0.95	3.71	0.98	4.07	1.04	3.62	0.85	2.88	0.59
20	2.59	0.82	2.76	0.81	3.01	0.85	3.20	0.92	3.50	0.97	3.69	1.00	4.07	1.05	3.55	0.84	2.72	0.57
21	2.58	0.83	2.76	0.82	3.01	0.87	3.19	0.93	3.48	0.98	3.69	1.01	4.05	1.05	3.48	0.84	2.61	0.56
22	2.58	0.83	2.76	0.83	3.00	0.88	3.18	0.94	3.45	0.99	3.68	1.01	4.01	1.05	3.41	0.83	2.50	0.54
24	2.55	0.85	2.74	0.86	2.97	0.90	3.15	0.96	3.43	1.00	3.62	1.02	3.97	1.06	3.26	0.82	2.25	0.51

Model: AS-W2462EF0(P24EL), AS-W2462WR0(D24RL)

Indoor Air Temperature	Outdoor Air Temperature : °CDB															
	-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	6.33	1.82	6.86	1.90	7.33	2.04	8.13	2.19	8.59	2.28	9.33	2.42	8.46	2.01	6.91	1.43
18	6.32	1.86	6.87	1.96	7.32	2.10	8.08	2.24	8.49	2.32	9.30	2.45	8.28	2.01	6.58	1.39
20	6.32	1.91	6.87	2.01	7.30	2.16	8.00	2.29	8.43	2.35	9.31	2.47	8.12	1.99	6.22	1.34
21	6.32	1.94	6.87	2.04	7.29	2.18	7.95	2.31	8.43	2.37	9.25	2.47	7.97	1.97	5.98	1.31
22	6.32	1.96	6.87	2.07	7.27	2.21	7.89	2.33	8.42	2.38	9.17	2.47	7.79	1.96	5.70	1.27
24	6.26	2.02	6.78	2.13	7.21	2.27	7.83	2.36	8.28	2.40	9.07	2.49	7.46	1.93	5.14	1.20

Symbol

DB : Dry Bulb Temperature [(°C)]
 WB : Wet Bulb Temperature [(°C)]
 TC : Total Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ indoor fan motor + outdoor fan motor)

Notes

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate
3. Capacities are based on the following conditions:
 Heating: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB
 - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Model: AS-W096MMS3(H09AK)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	2.41	0.57	2.53	0.56	2.74	0.58	2.93	0.63	3.25	0.67	3.44	0.70	3.73	0.74	3.38	0.62	2.76	0.44
18	2.38	0.58	2.53	0.57	2.75	0.60	2.93	0.64	3.23	0.69	3.39	0.71	3.72	0.75	3.31	0.61	2.63	0.43
20	2.37	0.59	2.53	0.59	2.75	0.62	2.92	0.66	3.20	0.70	3.37	0.72	3.73	0.76	3.25	0.61	2.49	0.41
21	2.36	0.60	2.53	0.59	2.75	0.63	2.92	0.67	3.18	0.71	3.37	0.73	3.70	0.76	3.19	0.60	2.39	0.40
22	2.36	0.60	2.53	0.60	2.75	0.63	2.91	0.68	3.16	0.71	3.37	0.73	3.67	0.76	3.12	0.60	2.28	0.39
24	2.33	0.62	2.50	0.62	2.71	0.65	2.88	0.69	3.13	0.72	3.31	0.74	3.63	0.76	2.98	0.59	2.05	0.37

Model: AS-W126MMS3(H12AK)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	3.01	0.62	3.16	0.60	3.43	0.63	3.66	0.68	4.07	0.72	4.30	0.75	4.66	0.80	4.23	0.66	3.46	0.47
18	2.98	0.62	3.16	0.62	3.43	0.65	3.66	0.69	4.04	0.74	4.24	0.77	4.65	0.81	4.14	0.66	3.29	0.46
20	2.96	0.64	3.16	0.63	3.44	0.67	3.65	0.71	4.00	0.76	4.21	0.78	4.66	0.81	4.06	0.66	3.11	0.44
21	2.95	0.64	3.16	0.64	3.44	0.67	3.64	0.72	3.97	0.76	4.21	0.78	4.63	0.82	3.98	0.65	2.99	0.43
22	2.94	0.65	3.16	0.65	3.43	0.68	3.63	0.73	3.95	0.77	4.21	0.79	4.59	0.82	3.90	0.65	2.85	0.42
24	2.91	0.67	3.13	0.67	3.39	0.70	3.61	0.75	3.91	0.78	4.14	0.79	4.53	0.82	3.73	0.64	2.57	0.40

Model: AS-W096BNR3(D09AK)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	2.41	0.57	2.53	0.56	2.74	0.58	2.93	0.63	3.25	0.67	3.44	0.70	3.73	0.74	3.38	0.62	2.76	0.44
18	2.38	0.58	2.53	0.57	2.75	0.60	2.93	0.64	3.23	0.69	3.39	0.71	3.72	0.75	3.31	0.61	2.63	0.43
20	2.37	0.59	2.53	0.59	2.75	0.62	2.92	0.66	3.20	0.70	3.37	0.72	3.73	0.76	3.25	0.61	2.49	0.41
21	2.36	0.60	2.53	0.59	2.75	0.63	2.92	0.67	3.18	0.71	3.37	0.73	3.70	0.76	3.19	0.60	2.39	0.40
22	2.36	0.60	2.53	0.60	2.75	0.63	2.91	0.68	3.16	0.71	3.37	0.73	3.67	0.76	3.12	0.60	2.28	0.39
24	2.33	0.62	2.50	0.62	2.71	0.65	2.88	0.69	3.13	0.72	3.31	0.74	3.63	0.76	2.98	0.59	2.05	0.37

Symbol

DB : Dry Bulb Temperature [(°C)]
 WB : Wet Bulb Temperature [(°C)]
 TC : Total Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ indoor fan motor + outdoor fan motor)

Notes

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate
3. Capacities are based on the following conditions:
 Heating: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB
 - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Model: AS-W126BNR3(D12AK)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	3.01	0.78	3.16	0.76	3.43	0.80	3.66	0.86	4.07	0.92	4.30	0.96	4.66	1.02	4.23	0.84	3.46	0.60
18	2.98	0.79	3.16	0.78	3.43	0.82	3.66	0.88	4.04	0.94	4.24	0.97	4.65	1.03	4.14	0.84	3.29	0.58
20	2.96	0.81	3.16	0.80	3.44	0.85	3.65	0.91	4.00	0.96	4.21	0.99	4.66	1.04	4.06	0.84	3.11	0.56
21	2.95	0.82	3.16	0.81	3.44	0.86	3.64	0.92	3.97	0.97	4.21	1.00	4.63	1.04	3.98	0.83	2.99	0.55
22	2.94	0.83	3.16	0.83	3.43	0.87	3.63	0.93	3.95	0.98	4.21	1.00	4.59	1.04	3.90	0.82	2.85	0.53
24	2.91	0.85	3.13	0.85	3.39	0.89	3.61	0.95	3.91	0.99	4.14	1.01	4.53	1.05	3.73	0.81	2.57	0.50

Models: AS-W096BWR4(A09WL), AS-W096BRR4(A09RL), US-W096B8F0(P09RL)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	2.41	0.68	2.53	0.67	2.74	0.70	2.93	0.75	3.25	0.80	3.44	0.84	3.73	0.89	3.38	0.74	2.76	0.52
18	2.38	0.70	2.53	0.68	2.75	0.72	2.93	0.77	3.23	0.82	3.39	0.85	3.72	0.90	3.31	0.74	2.63	0.51
20	2.37	0.71	2.53	0.70	2.75	0.74	2.92	0.79	3.20	0.84	3.37	0.87	3.73	0.91	3.25	0.73	2.49	0.49
21	2.36	0.71	2.53	0.71	2.75	0.75	2.92	0.80	3.18	0.85	3.37	0.87	3.70	0.91	3.19	0.73	2.39	0.48
22	2.36	0.72	2.53	0.72	2.75	0.76	2.91	0.81	3.16	0.86	3.37	0.88	3.67	0.91	3.12	0.72	2.28	0.47
24	2.33	0.74	2.50	0.74	2.71	0.78	2.88	0.83	3.13	0.87	3.31	0.88	3.63	0.91	2.98	0.71	2.05	0.44

Models: AS-W126BWR4(A12WL), AS-W126BRR4(A12RL), US-W126B8F0(P12RL)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	3.01	0.78	3.16	0.76	3.43	0.80	3.66	0.86	4.07	0.92	4.30	0.96	4.66	1.02	4.23	0.84	3.46	0.60
18	2.98	0.79	3.16	0.78	3.43	0.82	3.66	0.88	4.04	0.94	4.24	0.97	4.65	1.03	4.14	0.84	3.29	0.58
20	2.96	0.81	3.16	0.80	3.44	0.85	3.65	0.91	4.00	0.96	4.21	0.99	4.66	1.04	4.06	0.84	3.11	0.56
21	2.95	0.82	3.16	0.81	3.44	0.86	3.64	0.92	3.97	0.97	4.21	1.00	4.63	1.04	3.98	0.83	2.99	0.55
22	2.94	0.83	3.16	0.83	3.43	0.87	3.63	0.93	3.95	0.98	4.21	1.00	4.59	1.04	3.90	0.82	2.85	0.53
24	2.91	0.85	3.13	0.85	3.39	0.89	3.61	0.95	3.91	0.99	4.14	1.01	4.53	1.05	3.73	0.81	2.57	0.50

Symbol

DB : Dry Bulb Temperature	[(°C)]
WB : Wet Bulb Temperature	[(°C)]
TC : Total Capacity	[kW]
PI : Power Input	[kW]
(Comp.+ indoor fan motor + outdoor fan motor)	

Notes

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate
3. Capacities are based on the following conditions:
 Heating: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB
 - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Model: AS-W186CRR4(A18RL)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	4.74	1.35	4.98	1.31	5.40	1.37	5.77	1.48	6.40	1.58	6.77	1.64	7.34	1.75	6.66	1.45	5.44	1.03
18	4.69	1.37	4.98	1.35	5.41	1.41	5.77	1.52	6.36	1.62	6.68	1.67	7.32	1.77	6.52	1.45	5.18	1.01
20	4.66	1.39	4.97	1.38	5.41	1.45	5.75	1.56	6.30	1.65	6.64	1.70	7.33	1.78	6.39	1.44	4.90	0.97
21	4.65	1.40	4.97	1.40	5.41	1.47	5.74	1.58	6.26	1.67	6.64	1.71	7.29	1.78	6.27	1.43	4.71	0.95
22	4.64	1.42	4.98	1.42	5.41	1.49	5.72	1.60	6.21	1.68	6.63	1.72	7.23	1.78	6.14	1.41	4.49	0.92
24	4.58	1.45	4.93	1.46	5.34	1.54	5.68	1.64	6.17	1.71	6.52	1.74	7.14	1.80	5.88	1.39	4.05	0.87

Models: US-W096H4A0(E09EL), US-W096HSA0(Z09SL)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	2.41	0.70	2.53	0.68	2.74	0.72	2.93	0.77	3.25	0.82	3.44	0.86	3.73	0.91	3.38	0.76	2.76	0.54
18	2.38	0.71	2.53	0.70	2.75	0.74	2.93	0.79	3.23	0.84	3.39	0.87	3.72	0.92	3.31	0.76	2.63	0.52
20	2.37	0.72	2.53	0.72	2.75	0.76	2.92	0.81	3.20	0.86	3.37	0.89	3.73	0.93	3.25	0.75	2.49	0.50
21	2.36	0.73	2.53	0.73	2.75	0.77	2.92	0.82	3.18	0.87	3.37	0.89	3.70	0.93	3.19	0.74	2.39	0.49
22	2.36	0.74	2.53	0.74	2.75	0.78	2.91	0.83	3.16	0.88	3.37	0.90	3.67	0.93	3.12	0.74	2.28	0.48
24	2.33	0.76	2.50	0.76	2.71	0.80	2.88	0.85	3.13	0.89	3.31	0.91	3.63	0.94	2.98	0.73	2.05	0.45

Models: US-W126H4A0(E12EL), US-W126HSA0(Z12SL)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	2.86	0.85	3.01	0.83	3.26	0.87	3.48	0.93	3.86	1.00	4.08	1.04	4.43	1.10	4.02	0.91	3.28	0.65
18	2.83	0.86	3.00	0.85	3.26	0.89	3.48	0.96	3.84	1.02	4.03	1.06	4.42	1.12	3.93	0.91	3.12	0.63
20	2.81	0.88	3.00	0.87	3.26	0.92	3.47	0.98	3.80	1.04	4.00	1.07	4.42	1.12	3.86	0.90	2.96	0.61
21	2.80	0.88	3.00	0.88	3.26	0.93	3.46	0.99	3.78	1.05	4.00	1.08	4.39	1.12	3.78	0.90	2.84	0.60
22	2.80	0.89	3.00	0.89	3.26	0.94	3.45	1.01	3.75	1.06	4.00	1.08	4.36	1.12	3.70	0.89	2.71	0.58
24	2.76	0.92	2.97	0.92	3.22	0.97	3.42	1.03	3.72	1.08	3.93	1.09	4.31	1.13	3.54	0.88	2.44	0.55

Symbol

DB : Dry Bulb Temperature [(°C)]
 WB : Wet Bulb Temperature [(°C)]
 TC : Total Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ indoor fan motor + outdoor fan motor)

Notes

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate
3. Capacities are based on the following conditions:
 Heating: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB
 - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Model: AS-W096NRR0(A09LL)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	2.41	0.64	2.53	0.62	2.74	0.65	2.93	0.70	3.25	0.75	3.44	0.78	3.73	0.83	3.38	0.69	2.76	0.49
18	2.38	0.65	2.53	0.64	2.75	0.67	2.93	0.72	3.23	0.76	3.39	0.79	3.72	0.84	3.31	0.68	2.63	0.48
20	2.37	0.66	2.53	0.65	2.75	0.69	2.92	0.74	3.20	0.78	3.37	0.80	3.73	0.84	3.25	0.68	2.49	0.46
21	2.36	0.66	2.53	0.66	2.75	0.70	2.92	0.75	3.18	0.79	3.37	0.81	3.70	0.84	3.19	0.67	2.39	0.45
22	2.36	0.67	2.53	0.67	2.75	0.71	2.91	0.76	3.16	0.79	3.37	0.81	3.67	0.84	3.12	0.67	2.28	0.43
24	2.33	0.69	2.50	0.69	2.71	0.73	2.88	0.77	3.13	0.81	3.31	0.82	3.63	0.85	2.98	0.66	2.05	0.41

Model: AS-W126NRR0(A12LL)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	3.01	0.82	3.16	0.80	3.43	0.83	3.66	0.89	4.07	0.96	4.30	1.00	4.66	1.06	4.23	0.88	3.46	0.62
18	2.98	0.83	3.16	0.82	3.43	0.86	3.66	0.92	4.04	0.98	4.24	1.01	4.65	1.07	4.14	0.88	3.29	0.61
20	2.96	0.84	3.16	0.84	3.44	0.88	3.65	0.94	4.00	1.00	4.21	1.03	4.66	1.08	4.06	0.87	3.11	0.59
21	2.95	0.85	3.16	0.85	3.44	0.89	3.64	0.96	3.97	1.01	4.21	1.04	4.63	1.08	3.98	0.86	2.99	0.57
22	2.94	0.86	3.16	0.86	3.43	0.91	3.63	0.97	3.95	1.02	4.21	1.04	4.59	1.08	3.90	0.86	2.85	0.56
24	2.91	0.88	3.13	0.88	3.39	0.93	3.61	0.99	3.91	1.03	4.14	1.05	4.53	1.09	3.73	0.84	2.57	0.53

Models: AS-W1862EF0(P18EL), AS-W1862WR0(D18RL)

Indoor Air Temperature	Outdoor Air Temperature : °CDB																	
	-15		-10		-5		0		6		10		15		20		24	
°CDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16	4.36	1.31	4.59	1.28	4.97	1.34	5.31	1.44	5.90	1.54	6.23	1.60	6.76	1.71	6.13	1.42	5.01	1.01
18	4.32	1.33	4.58	1.31	4.98	1.38	5.31	1.48	5.86	1.58	6.15	1.63	6.74	1.73	6.00	1.41	4.77	0.98
20	4.29	1.36	4.58	1.35	4.98	1.42	5.30	1.52	5.80	1.61	6.11	1.66	6.75	1.74	5.89	1.40	4.51	0.95
21	4.28	1.37	4.58	1.37	4.98	1.44	5.28	1.54	5.76	1.63	6.11	1.67	6.71	1.74	5.77	1.39	4.33	0.92
22	4.27	1.39	4.58	1.38	4.98	1.46	5.27	1.56	5.72	1.64	6.10	1.68	6.65	1.74	5.65	1.38	4.14	0.90
24	4.22	1.42	4.54	1.42	4.92	1.50	5.23	1.60	5.68	1.67	6.00	1.70	6.58	1.75	5.41	1.36	3.72	0.85

Symbol

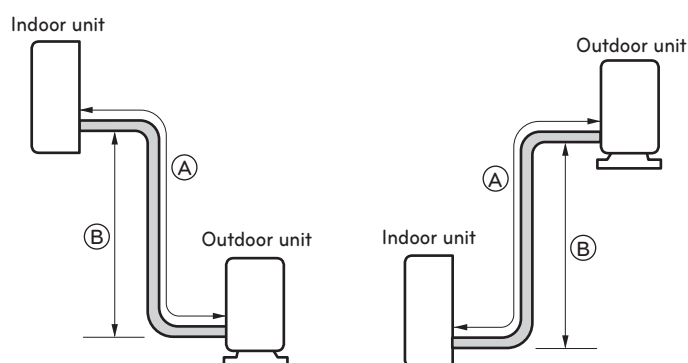
DB : Dry Bulb Temperature [(°C)]
 WB : Wet Bulb Temperature [(°C)]
 TC : Total Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ indoor fan motor + outdoor fan motor)

Notes

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate
3. Capacities are based on the following conditions:
 Heating: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB
 - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

8. Capacity coefficient factor

Model	Pipe Size				Standard Length (m)	Max. Pipe Length Ⓐ [m(ft)]	Max. Elevation Ⓑ [m(ft)]	Additional Refrigerant [g/m(oz/ft)]
	GAS		LIQUID					
	mm(inch)		mm(inch)					
AS-W0963WB0(G09WL)	Ø9.52	3/8	Ø6.35	1/4	7.5	15	10	20
AS-W1263WB0(G12WL)	Ø9.52	3/8	Ø6.35	1/4	7.5	15	10	20
AS-W2462EF0(P24EL)	Ø15.88	5/8	Ø6.35	1/4	7.5	30	15	35
AS-W096MMS3(H09AK)	Ø9.52	3/8	Ø6.35	1/4	7.5	20	10	20
AS-W126MMS3(H12AK)	Ø9.52	3/8	Ø6.35	1/4	7.5	20	10	20
AS-W096BNR3(D09AK)	Ø9.52	3/8	Ø6.35	1/4	7.5	20	10	20
AS-W126BNR3(D12AK)	Ø9.52	3/8	Ø6.35	1/4	7.5	20	10	20
AS-W096BWR4(A09WL)	Ø9.52	3/8	Ø6.35	1/4	7.5	15	10	20
AS-W126BWR4(A12WL)	Ø9.52	3/8	Ø6.35	1/4	7.5	15	10	20
AS-W096BRR4(A09RL)	Ø9.52	3/8	Ø6.35	1/4	7.5	15	10	20
AS-W126BRR4(A12RL)	Ø9.52	3/8	Ø6.35	1/4	7.5	15	10	20
AS-W186CRR4(A18RL)	Ø12.7	3/8	Ø6.35	1/4	7.5	20	10	20
US-W096B8F0(P09RL)	Ø9.52	3/8	Ø6.35	1/4	7.5	15	10	20
US-W126B8F0(P12RL)	Ø9.52	3/8	Ø6.35	1/4	7.5	15	10	20
US-W096H4A0(E09EL)	Ø9.52	3/8	Ø6.35	1/4	7.5	15	10	20
US-W126H4A0(E12EL)	Ø9.52	3/8	Ø6.35	1/4	7.5	15	10	20
US-W096HSA0(Z09SL)	Ø9.52	3/8	Ø6.35	1/4	7.5	15	10	20
US-W126HSA0(Z12SL)	Ø9.52	3/8	Ø6.35	1/4	7.5	15	10	20
AS-W096NRR0(A09LL)	Ø9.52	3/8	Ø6.35	1/4	7.5	20	10	20
AS-W126NRR0(A12LL)	Ø9.52	3/8	Ø6.35	1/4	7.5	20	10	20
AS-W1862WR0(D18RL)	Ø12.7	1/2	Ø6.35	1/4	7.5	20	10	20
AS-W2462WR0(D24RL)	Ø15.88	5/8	Ø6.35	1/4	7.5	30	15	35
AS-W1862EF0(P19EL)	Ø12.7	1/2	Ø6.35	1/4	7.5	20	10	20



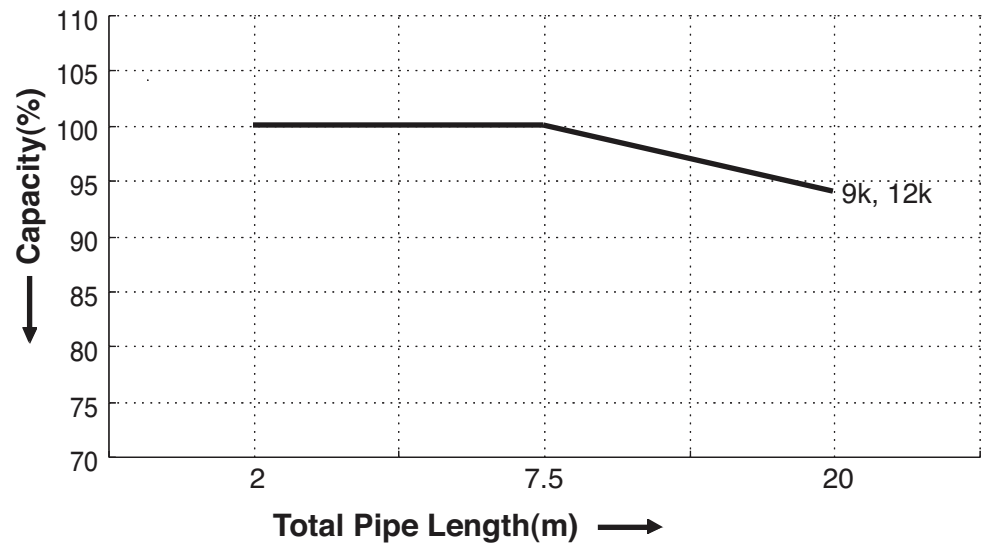
CAUTION:

- Capacity is based on standard length and maximum allowable length is on the basis of reliability.
- Additional refrigerant must be charged after 7.5m.

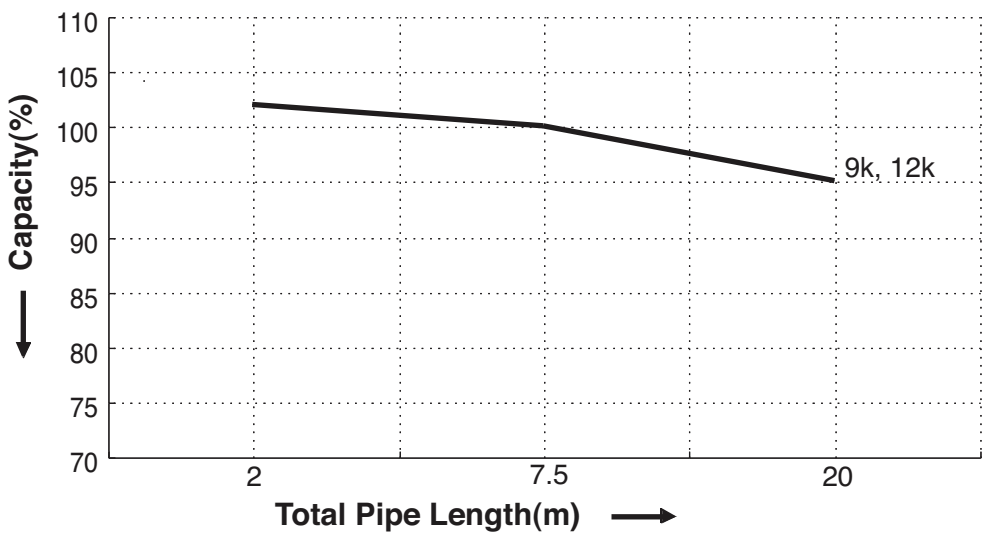
※ Additional refrigerant must be charged after 12.5m.

(Applied Model: AS-W096MMS3(H09AK), AS-W126MMS3(H12AK), AS-W096BNR3(D09AK)
AS-W126BNR3(D12AK), AS-W096NRR0(A09LL), AS-W126NRR0(A12LL))

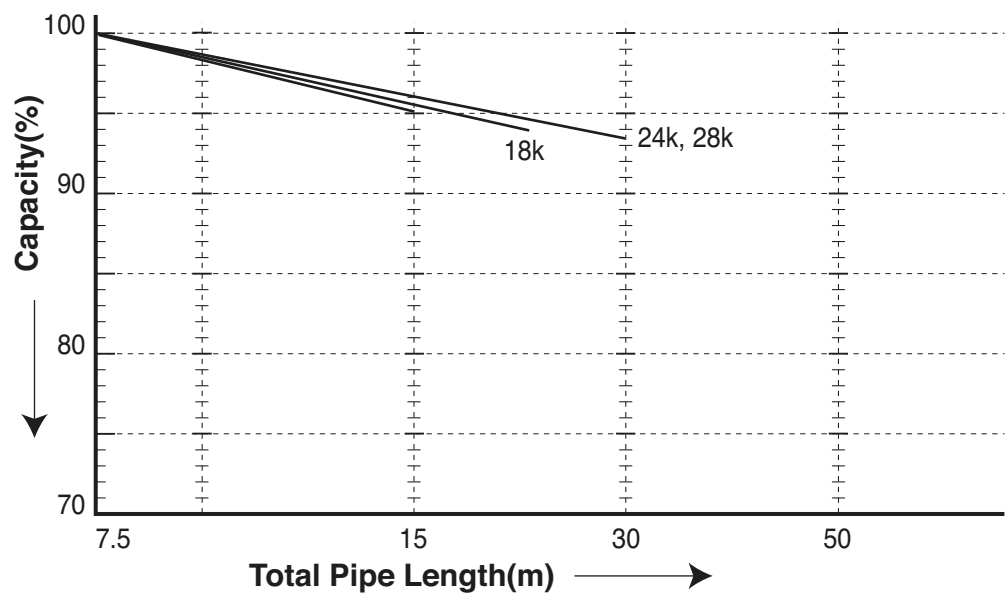
Cooling



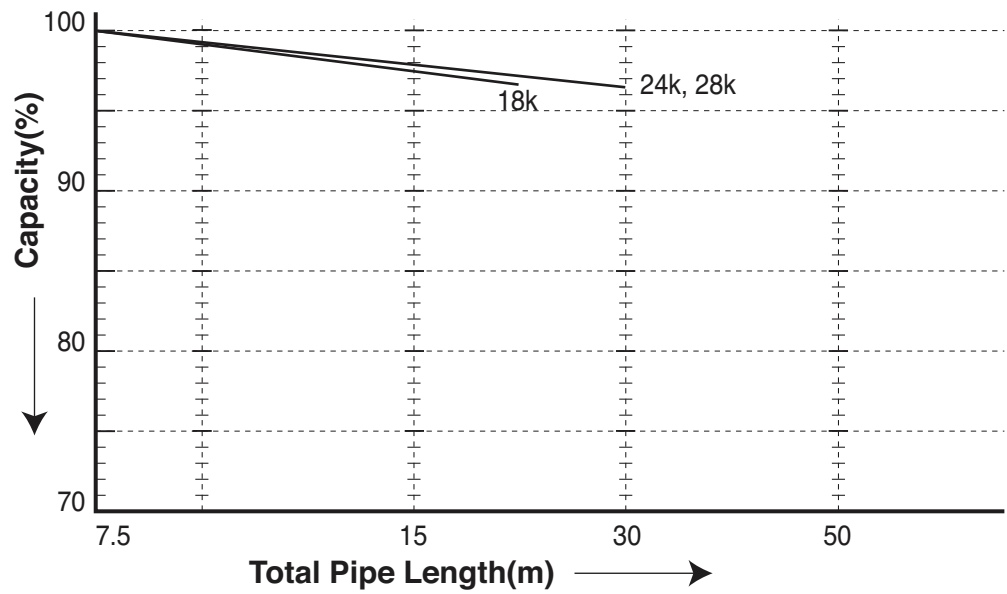
Heating



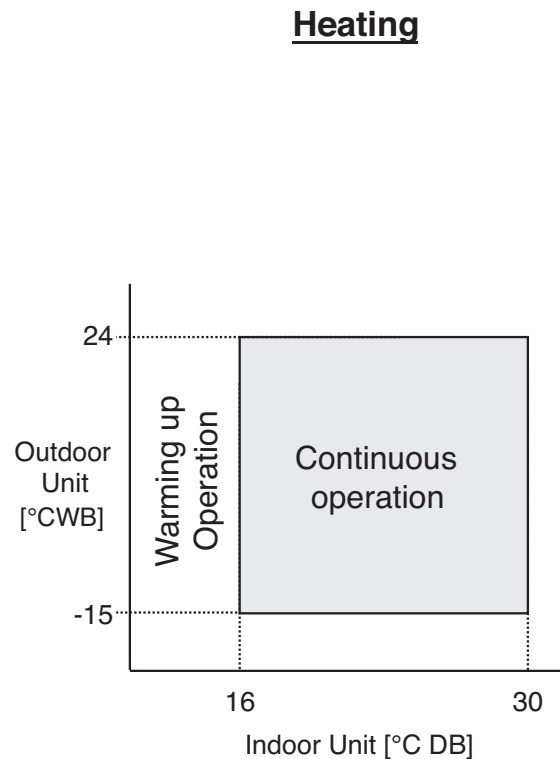
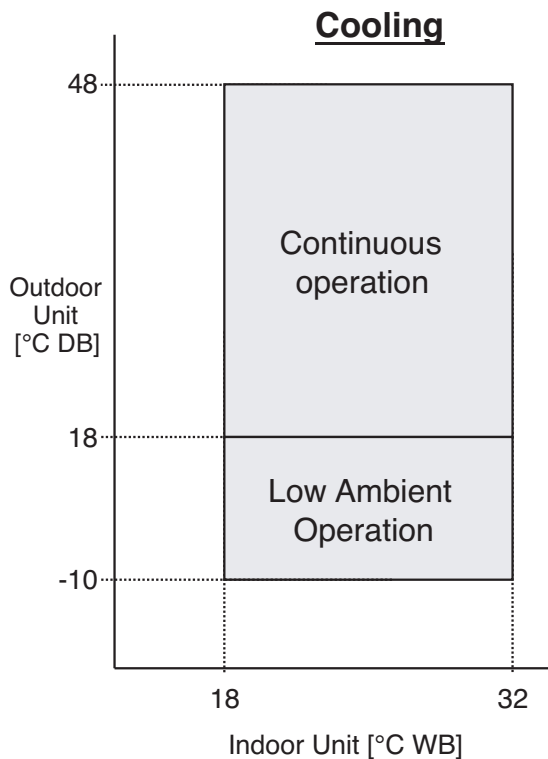
Cooling



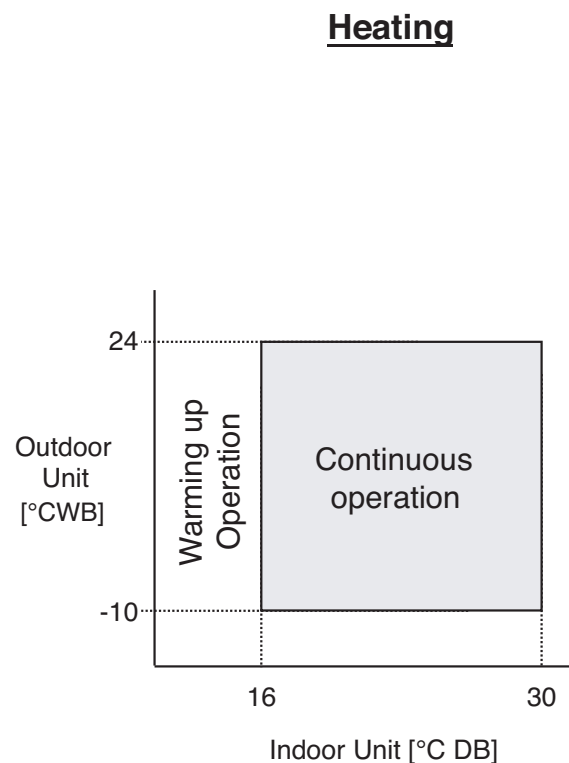
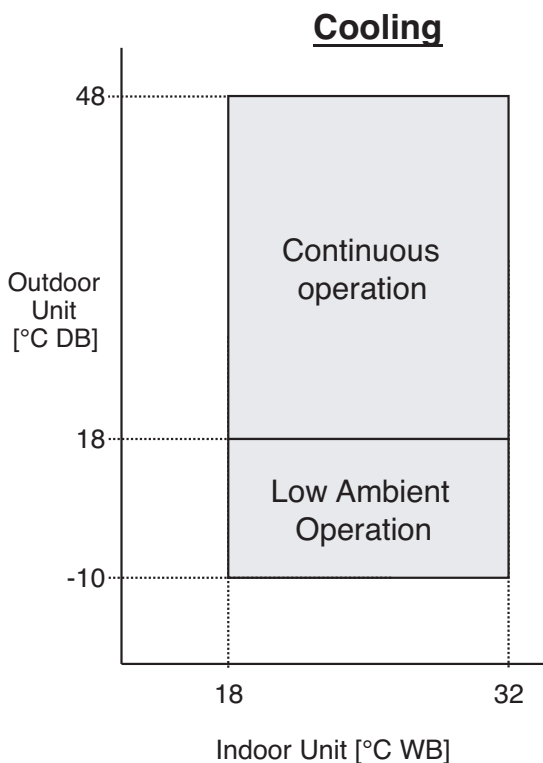
Heating



9. Operation range



* Applied Models : AS-W0963WB0(G09WL), AS-W1263WB0(G12WL), AS-W096MMS3(H09AK), AS-W126MMS3(H12AK), AS-W096BNR3(D09AK), AS-W126BNR3(D12AK), AS-W186CRR4(A18RL), AS-W096NRR0(A09LL), AS-W126NRR0(A12LL)



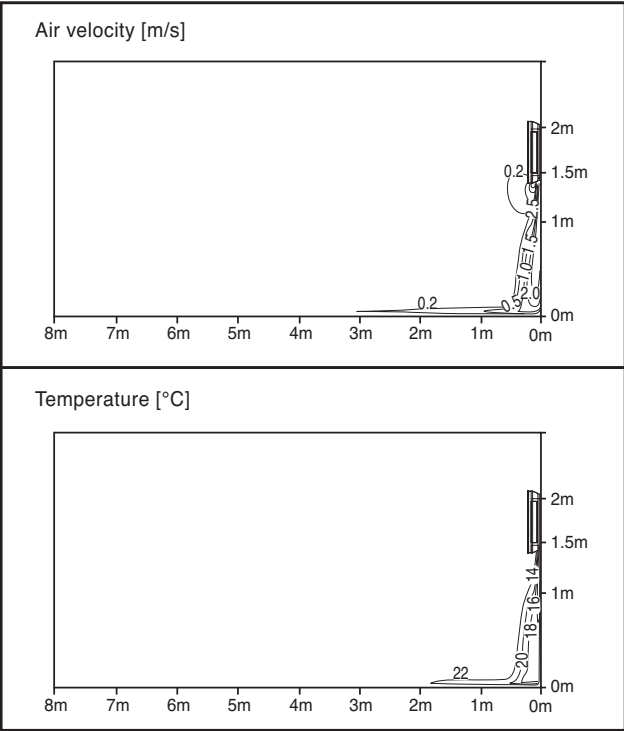
* Applied Models : AS-W2462EF0(P24EL), AS-W096BWR4(A09WL), AS-W126BWR4(A12WL), AS-W096BRR4(A09RL), AS-W126BRR4(A12RL), US-W096B8F0(P09RL), US-W126B8F0(P12RL), US-W096H4A0(E09EL), US-W126H4A0(E12EL), US-W096HSA0(Z09SL), US-W126HSA0(Z12SL), AS-W1862WR0(D18RL), AS-W2462WR0(D24RL), AS-W1862EF0(P19EL)

10. Air flow and temperature distributions (reference data)

Models: AS-W0963WB0(G09WL), AS-W1263WB0(G12WL)

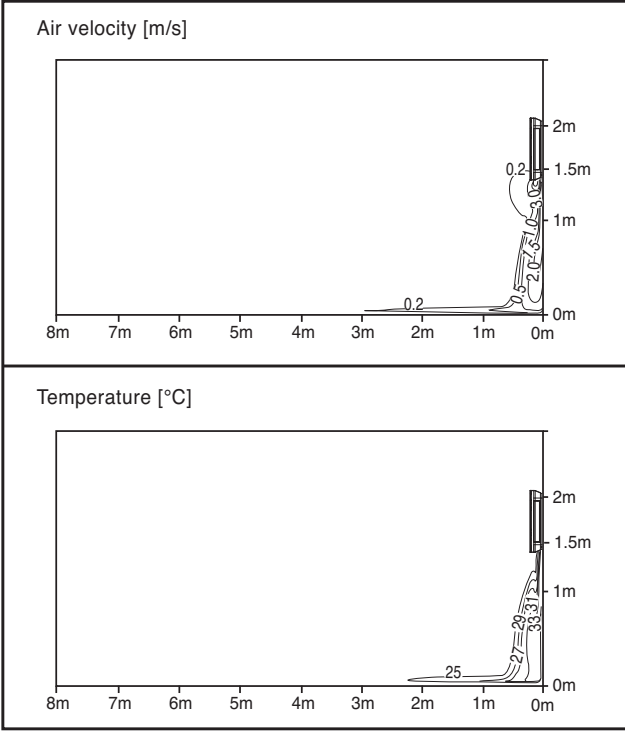
Cooling

Discharge angle:60°



Heating

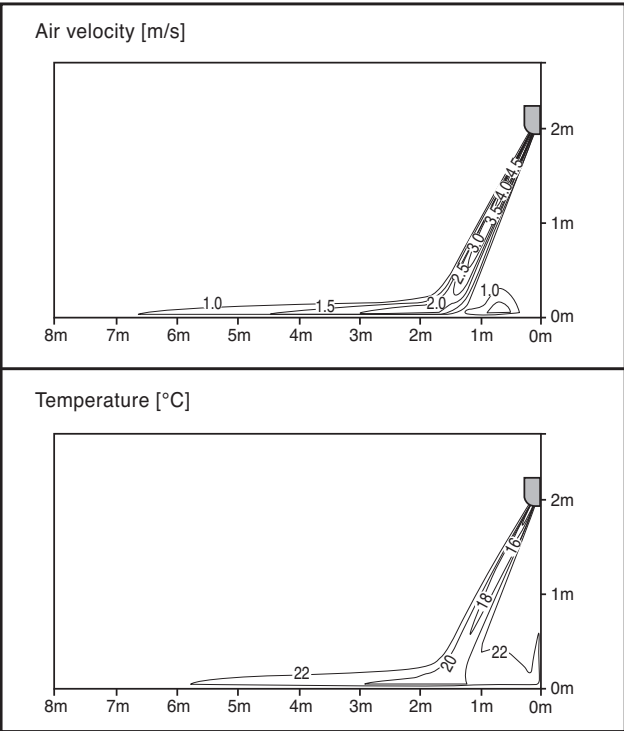
Discharge angle:60°



Model: AS-W2462EF0(P24EL), AS-W2462WR0(D24RL)

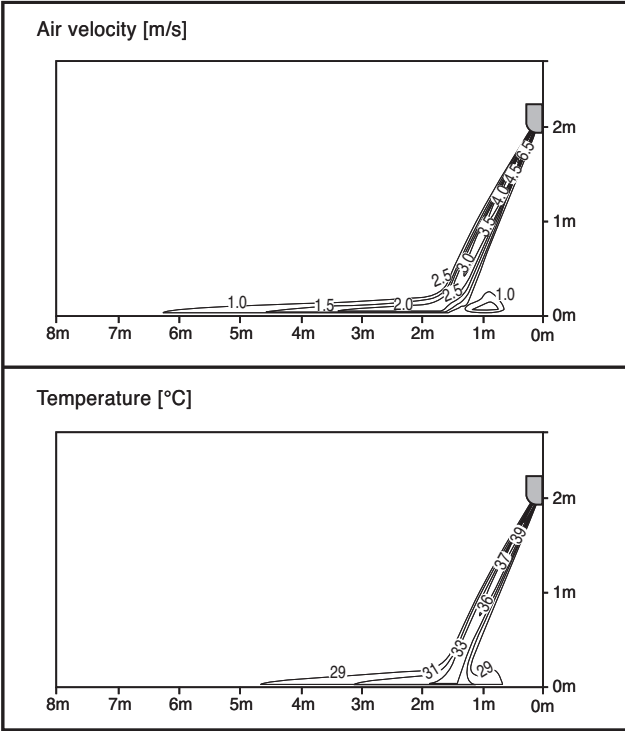
Cooling

Discharge angle:120°



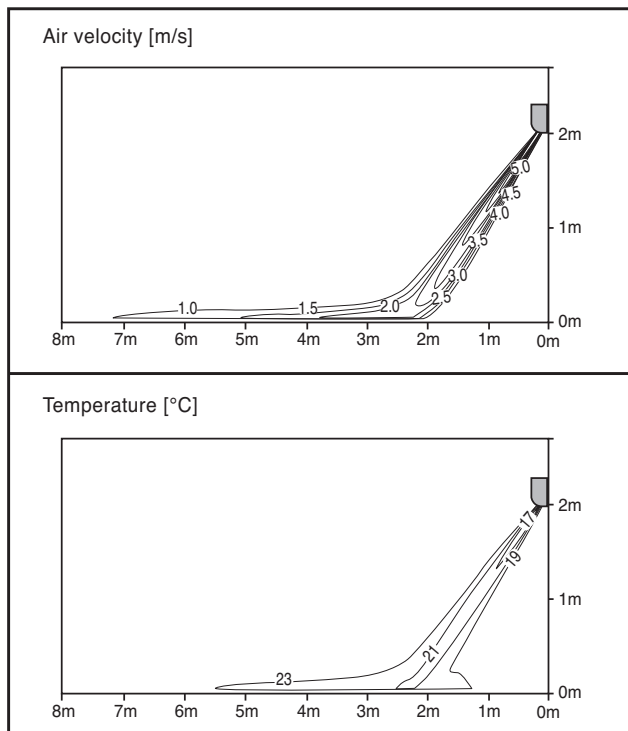
Heating

Discharge angle:100°

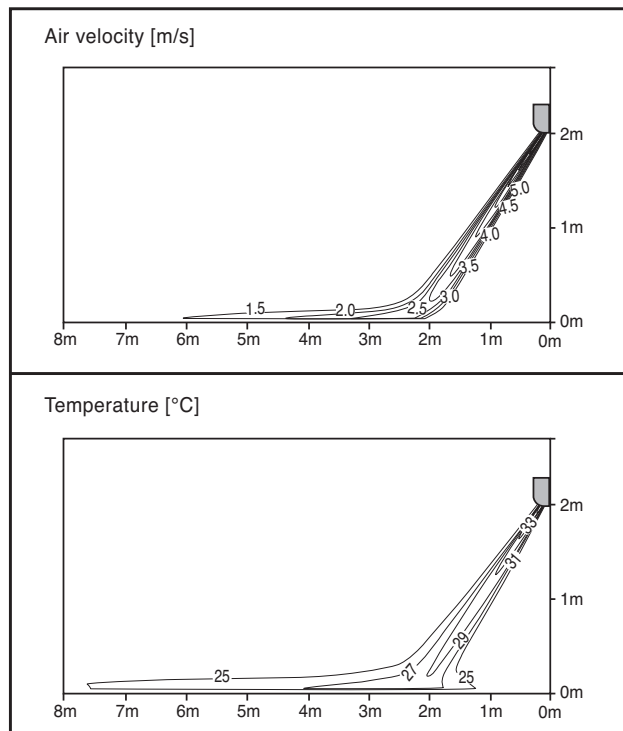


Model: AS-W126MMS3(H12AK)**Cooling**

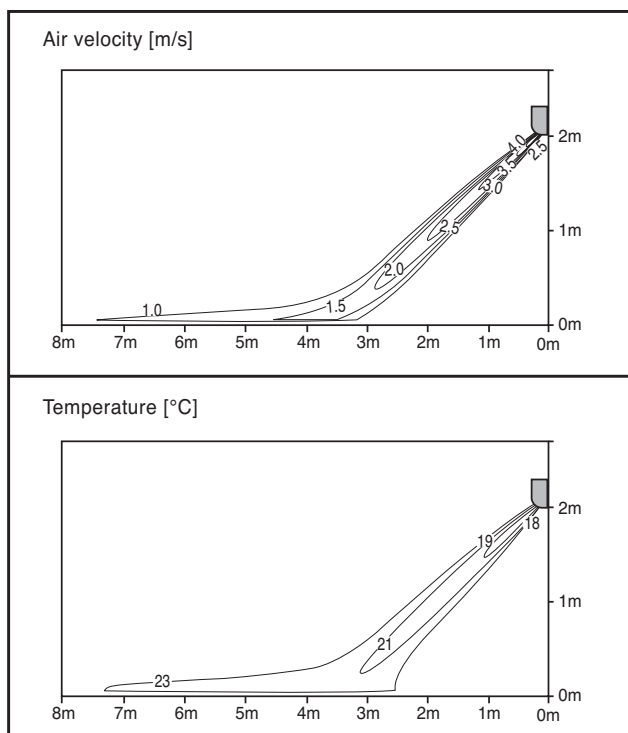
Discharge angle:160°

**Heating**

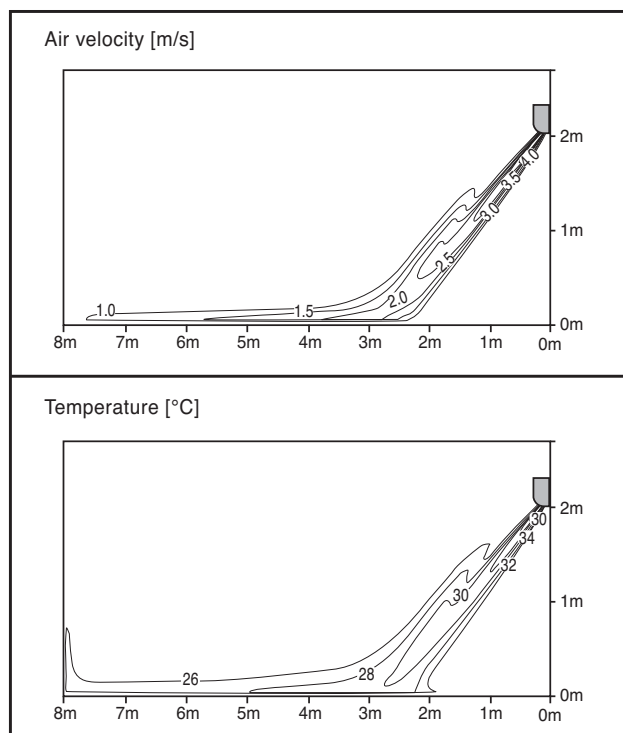
Discharge angle:110°

**Models: AS-W126BNR3(D12AK),AS-W126BWR4(A12WL),AS-W126BRR4(A12RL),US-W126B8F0(P12RL)****Cooling**

Discharge angle:20°

**Heating**

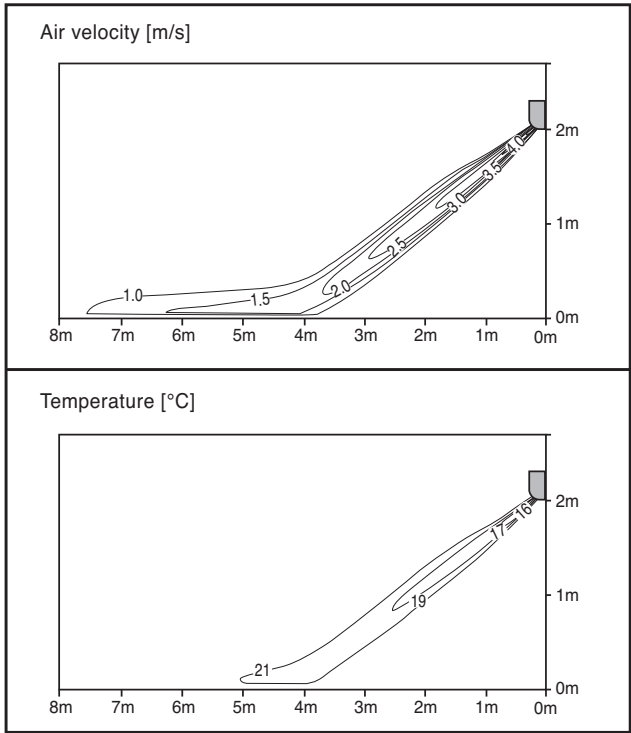
Discharge angle:30°



Model: AS-W186CRR4(A18RL)

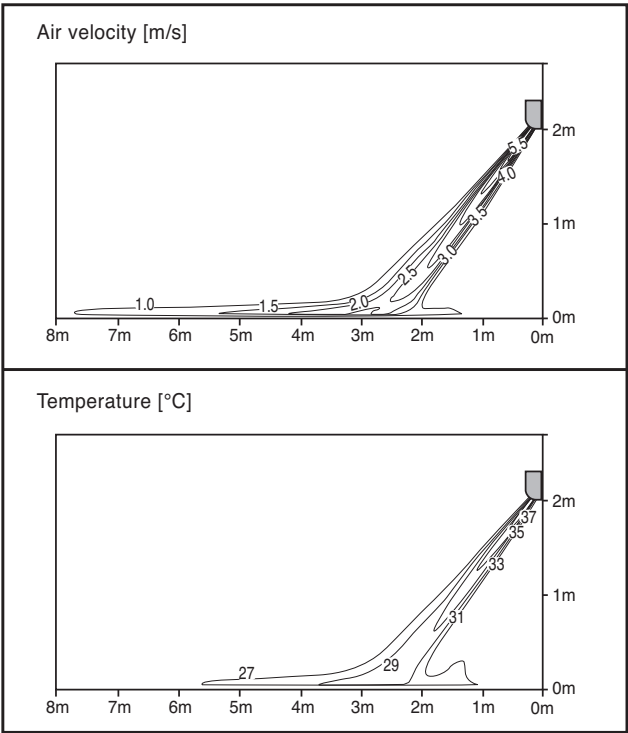
Cooling

Discharge angle:135°



Heating

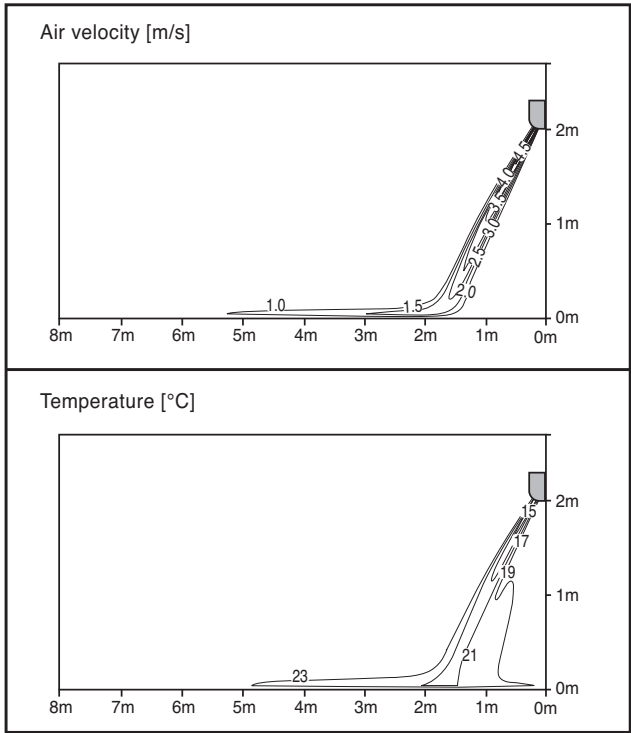
Discharge angle:120°



Models: US-W126H4A0(E12EL),US-W126HSA0(Z12SL)

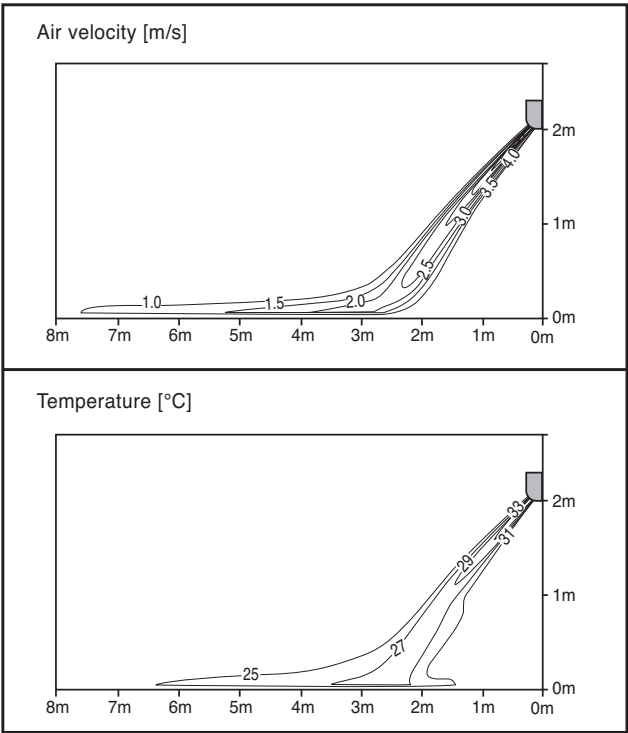
Cooling

Discharge angle:147°



Heating

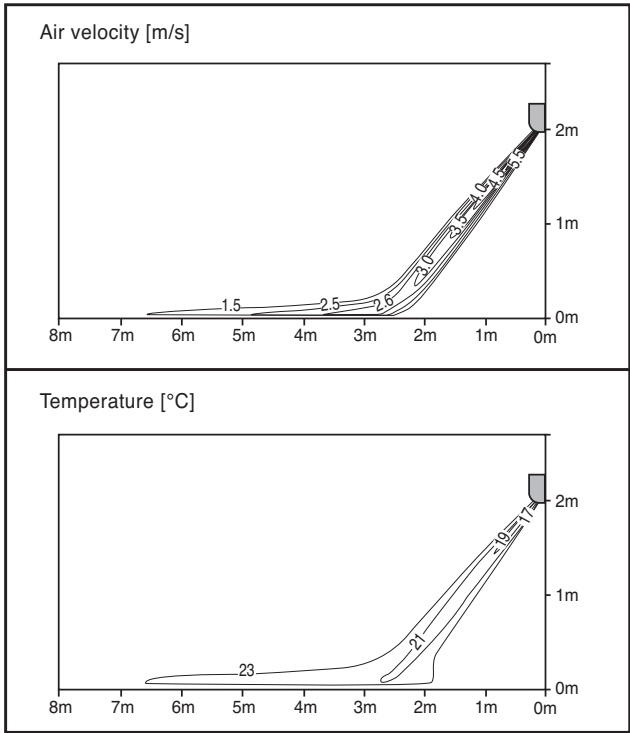
Discharge angle:117°



Models: AS-W096NRR0(A09LL), AS-W126NRR0(A12LL)

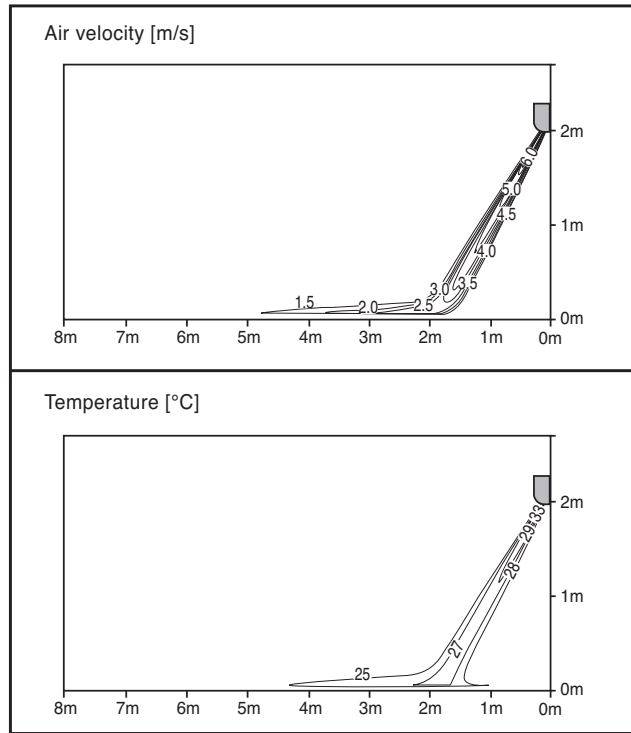
Cooling

Discharge angle:130°



Heating

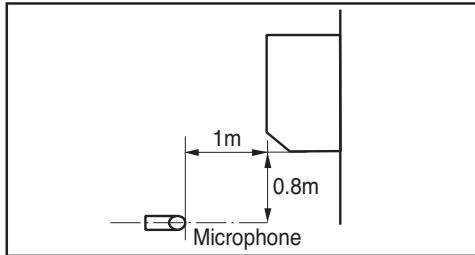
Discharge angle:110°



11. Sound levels(Reference data)

11.1 Indoor Units

Overall



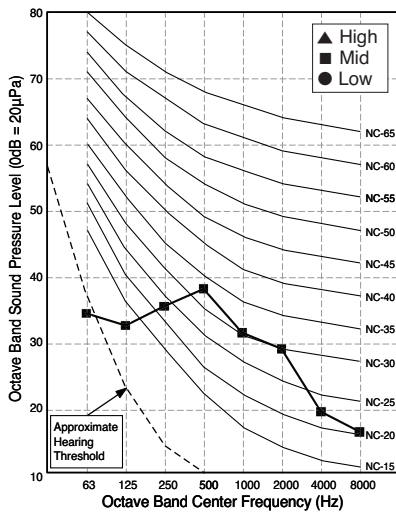
Notes:

- Sound measured at 1m away from the center of the unit.
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Reference acoustic pressure 0dB=20Pa.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The operating conditions are assumed to be standard.

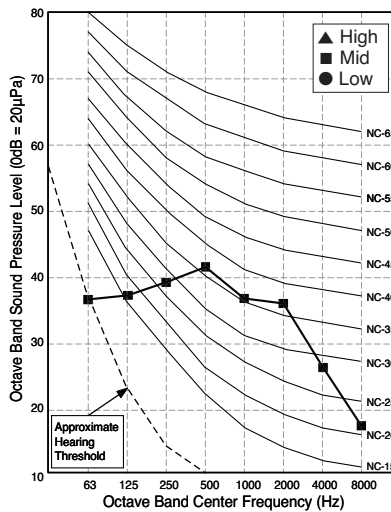
Model	Sound Levels [dB(A)]		
	H	M	L
ASNW096MMS3(H09AK)	39	33	25
ASNW126MMS3(H12AK)	39	33	25
ASNW096BNR3(D09AK)	38	33	23
ASNW126BNR3(D12AK)	39	33	23
ASNW096BWR4(A09WL),ASNW096BRR4(A09RL),USNW096B8F0(P09RL)	39	33	23
ASNW126BWR4(A09WL),ASNW126BRR4(A09RL),USNW096B8F0(P12RL)	39	33	23
ASNW186CRR4(A18RL)	42	40	35
USNW096H4A0(E09EL),USNW096HSA0(Z09SL)	39	33	25
USNW126H4A0(E12EL),USNW126HSA0(Z12SL)	39	33	25
ASNW096NRR0(A09LL)	39	33	24
ASNW126NRR0(A12LL)	39	33	24
ASNW1862WR0(D18RL),ASNW1862EF0(P18EL)	42	40	35
ASNW2462WR0(D24RL),ASNW2462EF0(P24EL)	45	40	35
ASNW0963WB0(G09WL)	39	34	29
ASNW1263WB0(G12WL)	39	34	29

Sound Pressure Level

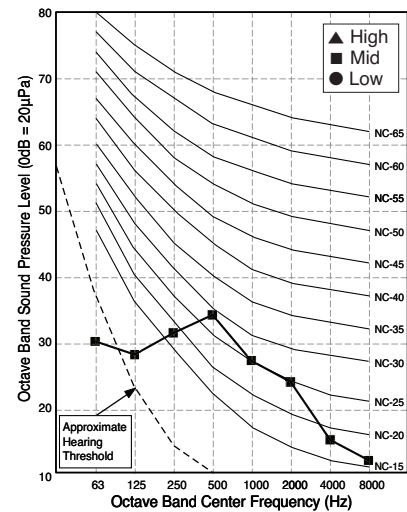
ASNW096MMS3(H09AK)



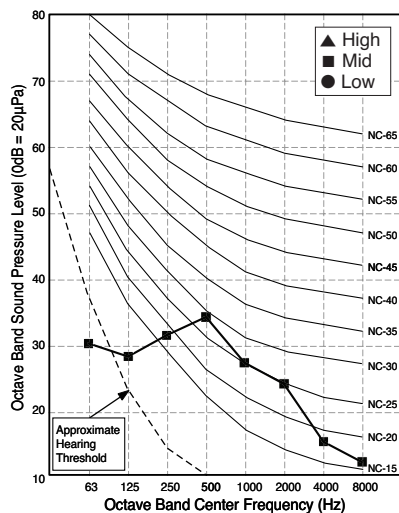
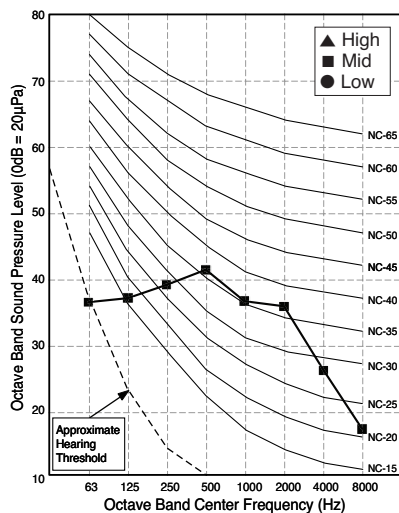
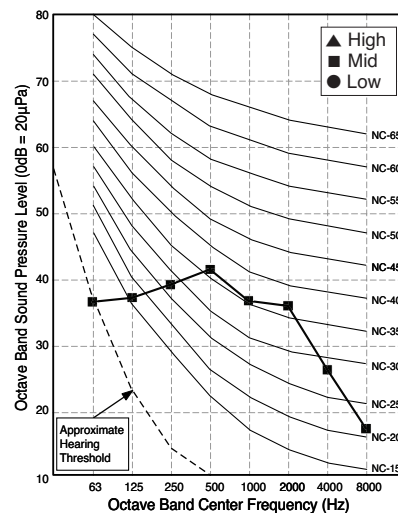
ASNW126MMS3(H12AK)



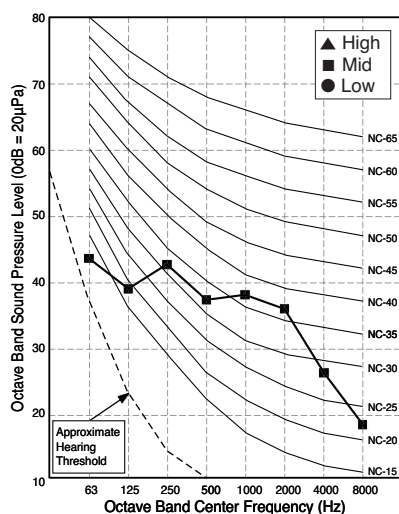
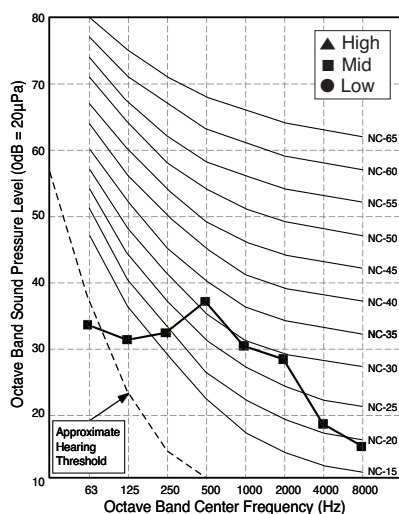
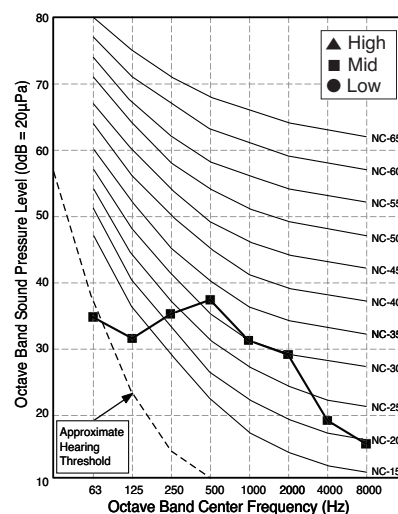
ASNW096BNR3(D09AK)



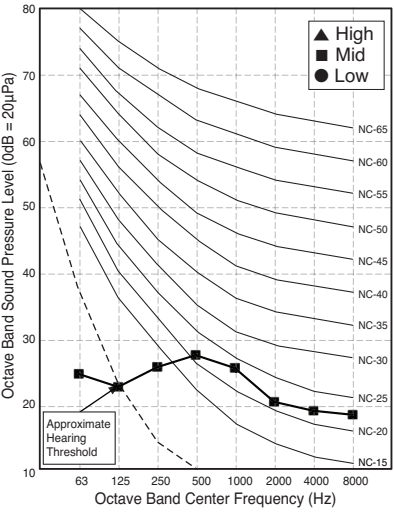
ASNW126BNR3(D12AK)

ASNW096BWR4(A09WL)
ASNW096BRR4(A09RL)
USNW096B8F0(P09RL)ASNW126BWR4(A09WL)
ASNW126BRR4(A09RL)
USNW096B8F0(P12RL)

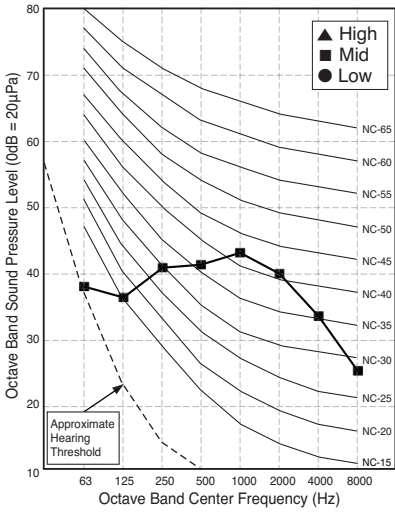
ASNW186CRR4(A18RL)

USNW096H4A0(E09EL)
USNW096HSA0(Z09SL)USNW126H4A0(E12EL)
USNW126HSA0(Z12SL)

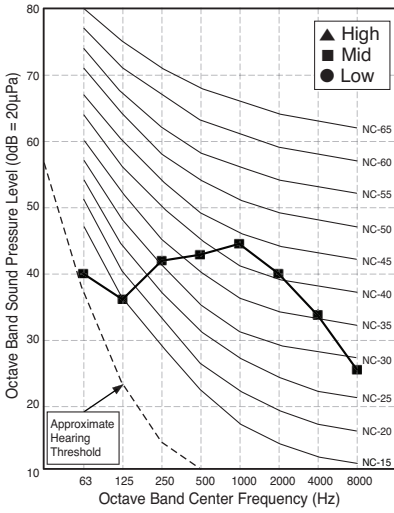
ASNW096NRR0(A09LL)
ASNW126NRR0(A12LL)



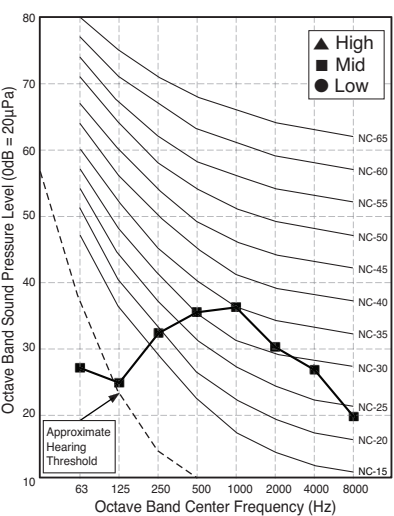
ASNW1862WR0(D18RL)
ASNW1862EF0(P18EL)



ASNW2462WR0(D24RL)
ASNW2462EF0(P24EL)

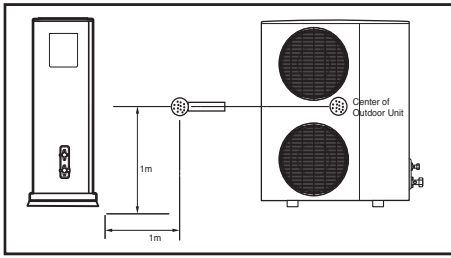


ASNW0963WB0(G09WL)
ASNW1263WB0(G12WL)



11.2 Outdoor Units

Overall



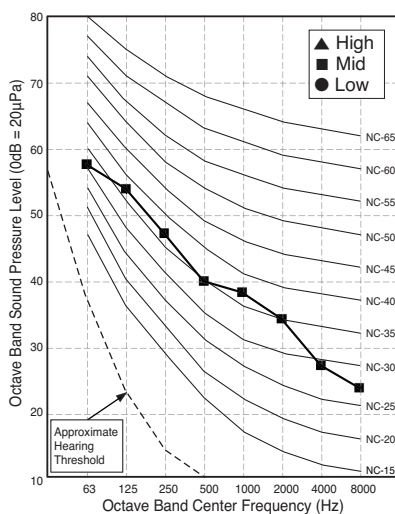
Notes:

- Sound measured at 1m away from the center of the unit.
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Reference acoustic pressure 0dB=20Pa.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The operating conditions are assumed to be standard.

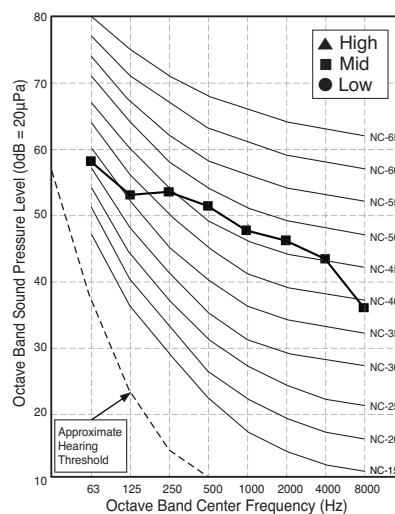
Model	Sound Levels [dB(A)]
	H
ASUW096MUF3(H09AK)	45
ASUW126MUF3(H12AK)	45
ASUW096BUS3(D09AK)	45
ASUW126BUS3(D12AK)	45
USUW096B8F0(P09RL)	47
USUW096B8F0(P12RL)	47
ASUW186CRR4(A18RL)	51
USUW096H4A0(E09EL)	47
USUW126H4A0(E12EL)	47
ASUW096NRR0(A09LL)	45
ASUW126NRR0(A12LL)	45
ASNW1862WR0(D18RL),ASNW1862EF0(P18EL)	51
ASNW2462WR0(D24RL),ASNW2462EF0(P24EL)	54
ASUW0963WB0(G09WL)	45
ASUW1263WB0(G12WL)	45

Sound Pressure Level

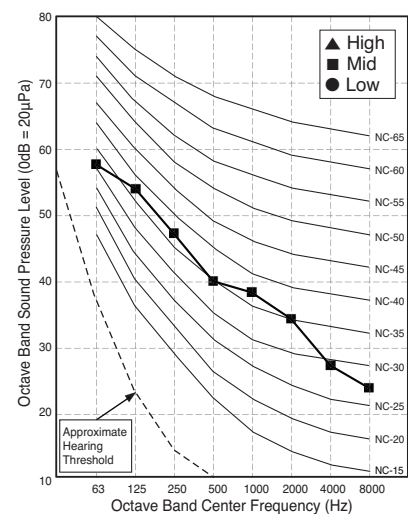
ASUW096MUF3(H09AK)



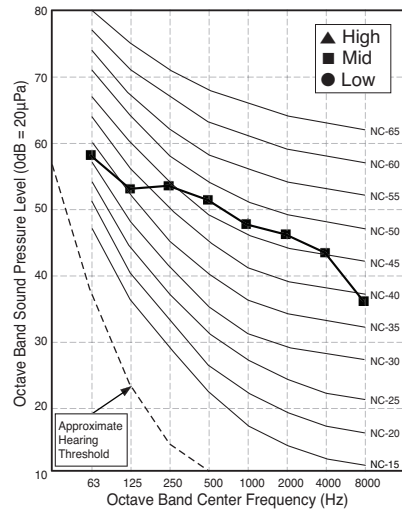
ASUW126MUF3(H12AK)



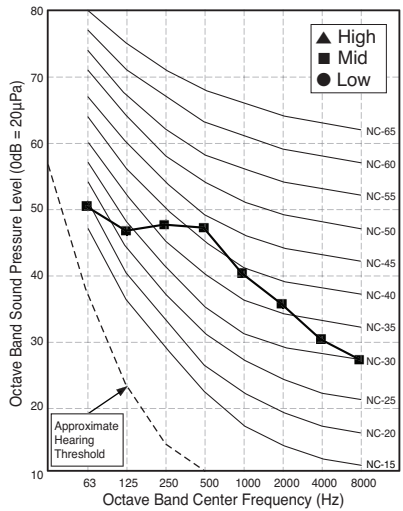
ASUW096BUS3(D09AK)



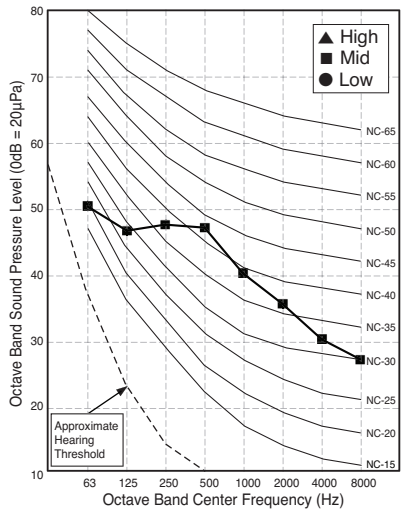
ASUW126BUS3(D12AK)



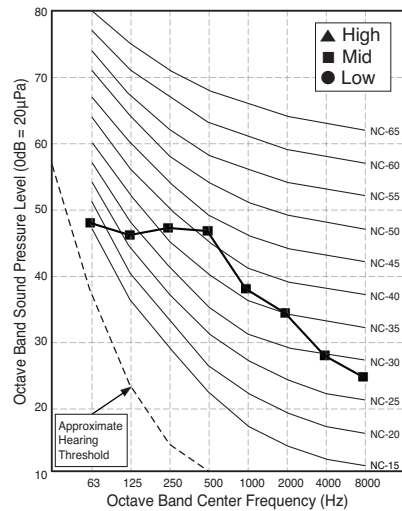
USUW096B8F0(P09RL)



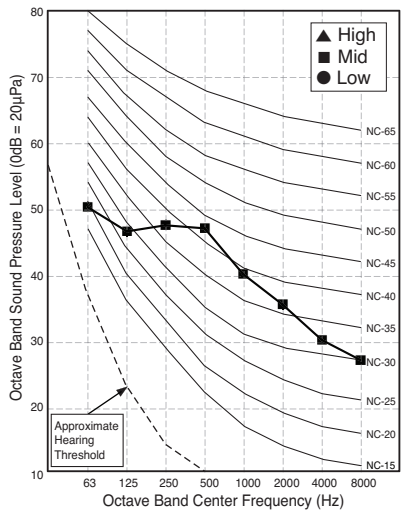
USUW096B8F0(P12RL)



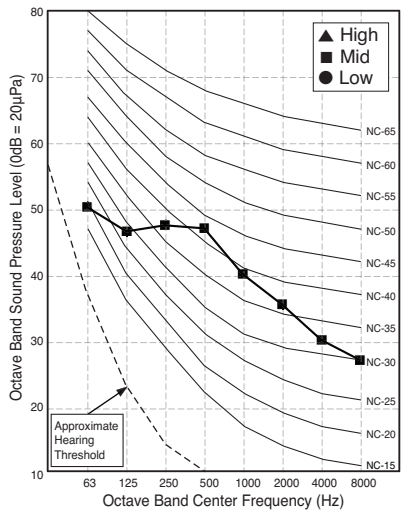
ASUW186CRR4(A18RL)

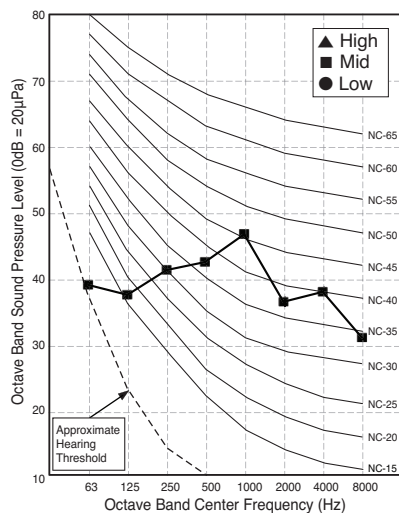
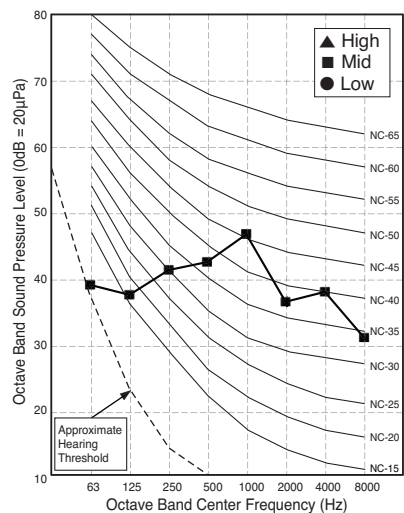
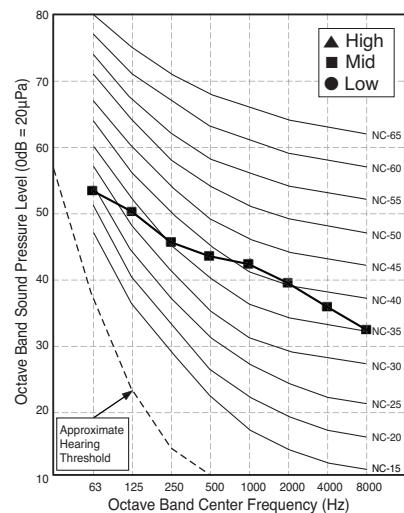
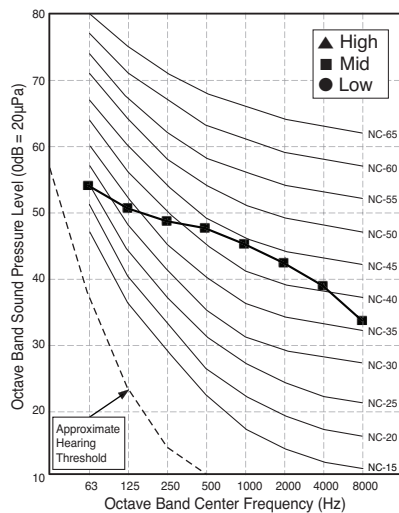
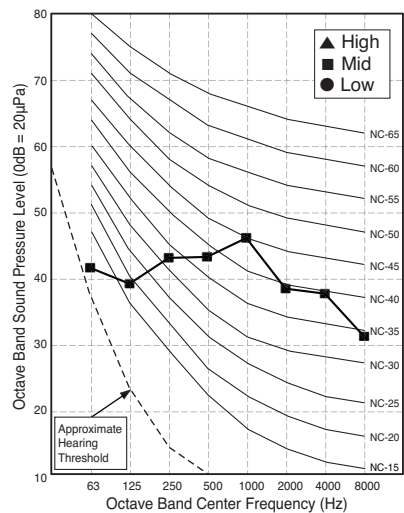
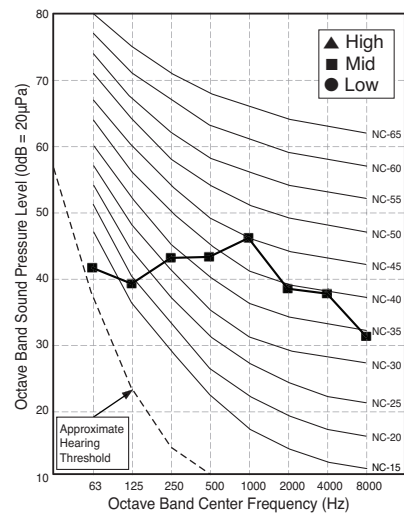


USUW096H4A0(E09EL)



USUW126H4A0(E12EL)

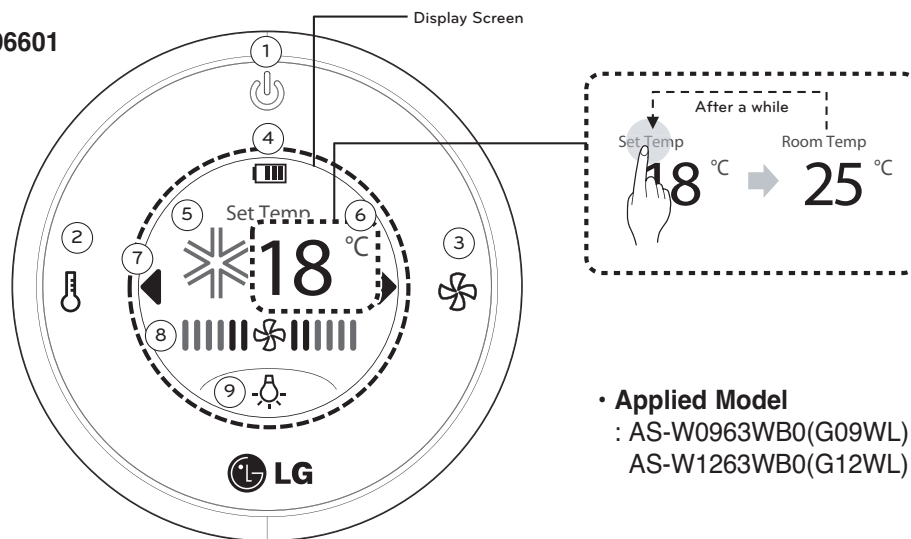


ASUW096NRR0(A09LL)**ASUW126NRR0(A12LL)****ASUW1862WR0(D18RL)
ASUW1862EF0(P18EL)****ASUW2462WR0(D24RL)
ASUW2462EF0(P24EL)****ASNW0963WB0(G09WL)****ASNW1263WB0(G12WL)**

12. Remote controller

Wireless Remote Controller

P/No: AKB73996601

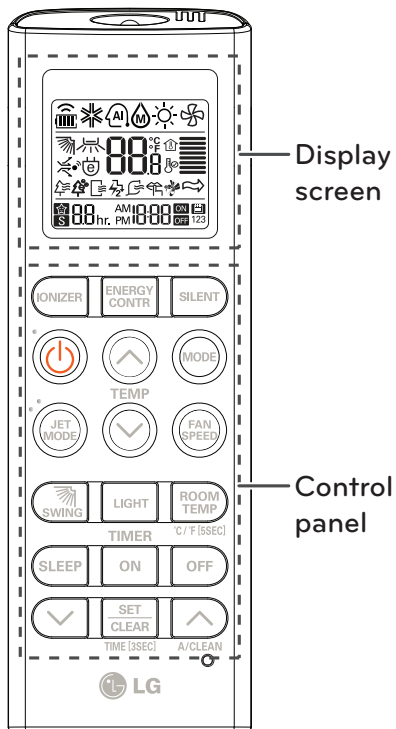


- and are button type and icons on display screen are touch type.
- Display screen turns off if untouched for a period of time.

①		On/Off button : Turns A/C or display screen on/off.
②		Temperature adjustment button : Adjusts the room temperature when ACO, cooling and heating.
③		Indoor fan speed button : Adjusts the fan speed.
④		Battery status display : Displays the amount of battery left.
⑤		Operation mode display : Displays the selected operation mode. Cooling operation (❄️) / Auto operation or auto changeover (AI) / Dehumidifying operation (💧) / Heating operation (☀️) / Air circulation (🌀).
⑥		Set temperature display : Displays the room temperature if tapping the “Set Temp”, and turns to the set temperature after a while.
⑦		Icon for moving a menu : Taps ◀, ▶, or 🏠 to move a menu to left or right.
⑧		Fan speed display : If additional functions are set, fan speed and additional function(s) display alternately.
⑨		Icon for turning on/off the lighting of indoor unit.

Wireless Remote Controller

P/No: AKB73456113



• Applied Model

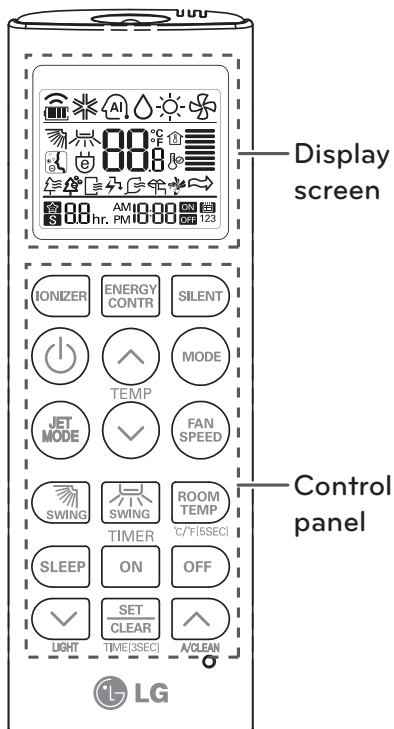
: ASNW1862EF0(P18EL)
 ASNW2462EF0(P24EL)
 USNW096B8F0(P09RL)
 USNW126B8F0(P12RL)

Control panel	Display screen	Description
IONIZER		IONIZER button* : Plasmaster Ionizer sterilize the aerial bacteria and other harmful substances.
SLEEP		Sleep mode auto button* : Sets the sleep mode auto operation.
TEMP (up/down arrows)	88 °C / °F	Temperature adjustment buttons : Adjusts the room temperature when cooling and heating.
Power button	-	On/Off button : Turns the power on/off.
FAN SPEED		Indoor fan speed button : Adjusts the fan speed.
MODE		Operation mode selection button* : Selects the operation mode. Cooling operation (❄️) / Auto operation or auto changeover (🔄) / Dehumidifying operation (💧) / Heating operation (🔥) / Air circulation (🌀)
JET MODE	Po	Jet cooling/heating button* : Warms up or cools down the indoor temperature within a short period of time.
SWING		Air flow direction button : Adjusts the air flow direction vertically.
ROOM TEMP		Temperature display button : Displays the room temperature. Also changes unit from °C to °F if pressed for 5 seconds.
ON OFF	AM 12:00 ON	Timer button : Sets the current time and the start / end time.
SILENT ENERGY CONTR A/CLEAN		Navigation and functions button* : Adjusts the time and sets the special functions. 🔇 Operates SILENT mode / ⚡ Operates Active E/Control mode / 🧼 Auto clean silent Mode and Active E/Control are not available at the same time
SET CLEAR	-	Set/clear button : Sets or cancels functions.
○	-	Reset button : Resets the air conditioner settings.
LIGHT	-	LIGHT button : Adjusts the brightness of the indoor unit display.

* Some functions may not be supported, depending on the model.

You can operate the air conditioner more conveniently with the remote control.
You will find the buttons for the additional functions below the down of the display screen.

P/No: AKB73635603



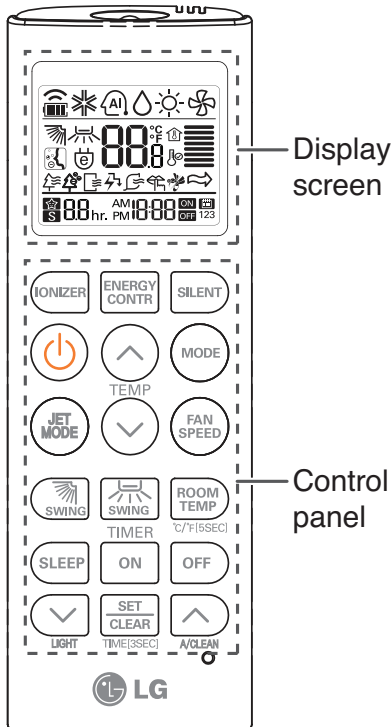
- **Applied Model**
: ASNW096MMS3(H09AK)
ASNW126MMS3(H12AK)

Control panel	Display screen	Description
IONIZER		IONIZER button* : Plasmaster Ionizer sterilize the aerial bacteria and other harmful substances.
SLEEP		Sleep mode auto button* : Sets the sleep mode auto operation.
	88 °C	Temperature adjustment buttons : Adjusts the room temperature when cooling and heating.
	-	On/Off button : Turns the power on/off.
FAN SPEED		Indoor fan speed button : Adjusts the fan speed.
MODE		Operation mode selection button* : Selects the operation mode. Cooling operation (❄️) / Auto operation or auto changeover (⌛) / Dehumidifying operation (💧) / Heating operation (🔥) / Air circulation (🌀)
JET MODE	Po	Jet cooling/heating button* : Warms up or cools down the indoor temperature within a short period of time.
SWING		Air flow direction button : Adjusts the air flow direction vertically or horizontally.
ROOM TEMP		Temperature display button : Displays the room temperature. Also changes unit from °C to °F if pressed for 5 seconds.
ON OFF	AM 12:00 ON OFF	Timer button : Sets the current time and the start / end time.
SILENT ENERGY CONTR A/CLEAN		Navigation and functions button* : Adjusts the time and sets the special functions. Operates SILENT mode / Operates E/Control mode / : Auto clean silent Mode and E/Control are not available at the same time
	-	Adjusts the brightness of the indoor unit display
SET CLEAR	-	Set/clear button : Sets or cancels functions.
O	-	Reset button : Resets the air conditioner settings.

* Some functions may not be supported, depending on the model.

You can operate the air conditioner more conveniently with the remote control. You will find the buttons for the additional functions under the cover of the remote control.

P/No: AKB73635619



• Applied Model

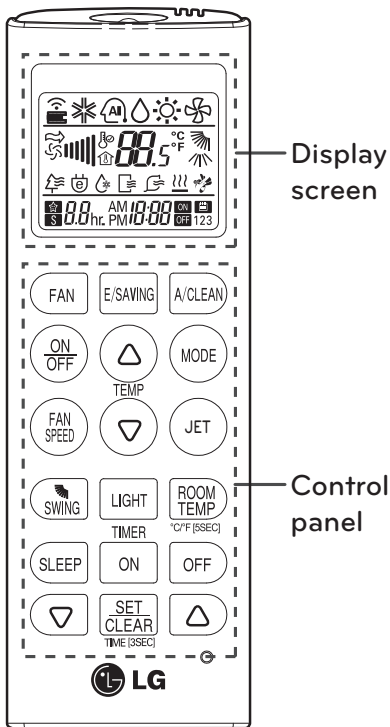
: ASNW096BNR3(D09AK)
 ASNW126BNR3(D12AK)
 ASNW096BWR4(A09WL)
 ASNW126BWR4(A12WL)
 ASNW096BRR4(A09RL)
 ASNW126BRR4(A12RL)
 ASNW186CRR4(A18RL)

Control panel	Display screen	Description
		IONIZER button* : Plasmaster Ionizer sterilize the aerial bacteria and other harmful substances.
		Sleep mode auto button* : Sets the sleep mode auto operation.
		Temperature adjustment buttons : Adjusts the room temperature when cooling and heating.
	-	On/Off button : Turns the power on/off.
		Indoor fan speed button : Adjusts the fan speed.
		Operation mode selection button* : Selects the operation mode. Cooling operation (❄️) / Auto operation or auto changeover (AI) / Dehumidifying operation (💧) / Heating operation (☀️) / Air circulation (🌀)
		Jet cooling/heating button* : Warms up or cools down the indoor temperature within a short period of time.
		Air flow direction button : Adjusts the air flow direction vertically or horizontally.
		Temperature display button : Displays the room temperature. Also changes unit from °C to °F if pressed for 5 seconds.
		Timer button : Sets the current time and the start / end time.
		Navigation and functions button* : Adjusts the time and sets the special functions. Operates SILENT mode / Operates E/Control mode / Auto clean silent Mode and E/Control are not available at the same time
	-	Adjusts the brightness of the indoor unit display
	-	Set/clear button : Sets or cancels functions.
	-	Reset button : Resets the air conditioner settings.

* Some functions may not be supported, depending on the model.

You can operate the air conditioner more conveniently with the remote control. You will find the buttons for the additional functions under the cover of the remote control.

P/No: AKB73456104



• **Applied Model**

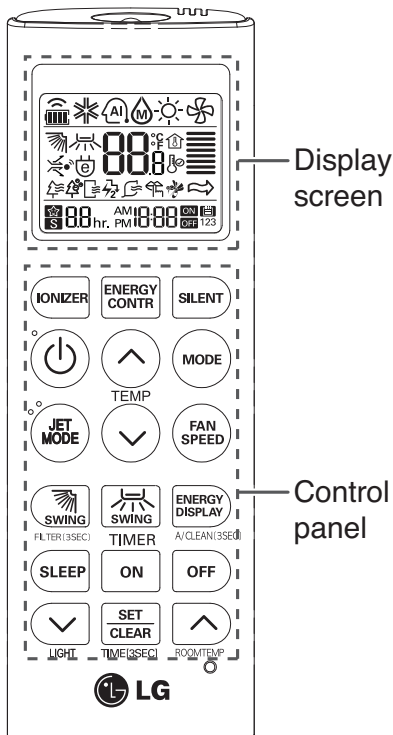
: USNW096H4A0(E09EL)
 USNW126H4A0(E12EL)
 USNW096HSA0(Z09SL)
 USNW126HSA0(Z12SL)

Control panel	Display screen	Description
		Fan button : Air come out from the indoor unit below to the room without air temperature change.
		Sleep mode auto button* : Sets the sleep mode auto operation.
		Temperature adjustment buttons : Adjusts the room temperature when cooling and heating.
	-	On/Off button : Turns the power on/off.
		Indoor fan speed button : Adjusts the fan speed.
		Operation mode selection button* : Selects the operation mode. Cooling operation (*) / Auto operation or auto changeover (AI) / Dehumidifying operation (Δ) / Heating operation (⊙)
		Jet cooling/heating button* : Warms up or cools down the indoor temperature within a short period of time.
		Air flow direction button : Adjusts the air flow direction vertically.
		Temperature display button : Displays the room temperature. Press for 5 sec, conversion °C / °F
		Timer button : Sets the current time and the start / end time.
		Navigation and functions button* : Sets the special functions. : Auto clean : Operates energy saving cooling
	-	Set/clear button : Sets or cancels functions.
	-	Reset button : Resets the remote control settings.
		LIGHT button : Adjusts the brightness of the indoor unit display.

* Some functions may not be supported, depending on the model.

You can operate the air conditioner more conveniently with the remote control.

P/No: AKB73975605



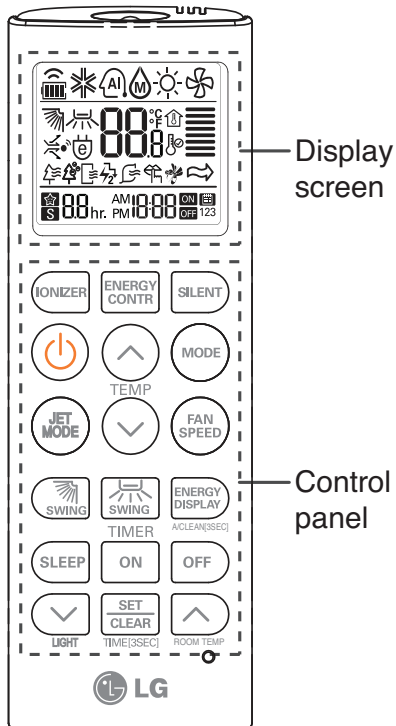
- **Applied Model**
: ASNW096NRR0(A09LL)
ASNW126NRR0(A12LL)

Control panel	Display screen	Description
		IONIZER button* : Plasmaster Ionizer sterilize the aerial bacteria and other harmful substances.
		Sleep mode auto button* : Sets the sleep mode auto operation.
		Temperature adjustment buttons : Adjusts the room temperature when cooling and heating.
	-	On/Off button : Turns the power on/off.
		Indoor fan speed button : Adjusts the fan speed.
		Operation mode selection button* : Selects the operation mode. Cooling operation (❄️) / Auto operation or auto changeover (⌚) / Dehumidifying operation (💧) / Heating operation (🔥) / Air circulation (🌀)
		Jet cooling/heating button* : Warms up or cools down the indoor temperature within a short period of time.
		Air flow direction button : Adjusts the air flow direction vertically or horizontally.
		Temperature display button : Displays the room temperature.
		Timer button : Sets the start / end time.
		Navigation and functions button* : Adjusts the time and sets the special functions. 🔇: Operates SILENT mode / ⚡: Operates E/Control mode / 🧼: Auto Clean. Press for 3 sec. Silent Mode and E/Control are not available at the same time.
	-	LIGHT button : Adjusts the brightness of the indoor unit display.
	-	Energy Display Button : Set whether or not to display information regarding Energy.
	-	Filter button : When cleaning the filter, press for 3sec.
	-	Set/clear button : Sets or cancels functions.
	-	Reset button : Resets the air conditioner settings.

* Some functions may not be supported, depending on the model.

You can operate the air conditioner more conveniently with the remote control. You will find the buttons for the additional functions under the cover of the remote control.

P/No: AKB73855721



- **Applied Model**
: ASUW1862WR0(D18RL)
ASUW2462WR0(D24RL)

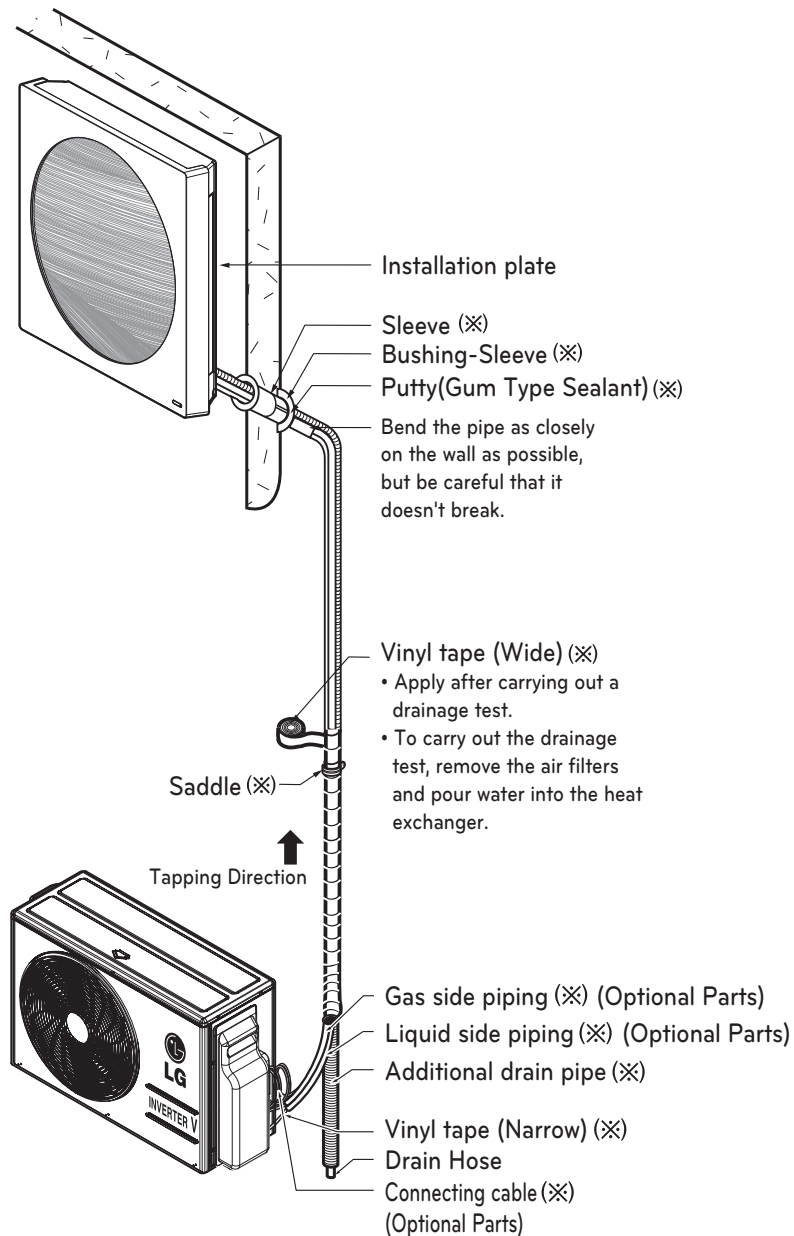
Control panel	Display screen	Description
IONIZER		IONIZER button* : Plasmaster Ionizer sterilize the aerial bacteria and other harmful substances.
SLEEP		Sleep mode auto button* : Sets the sleep mode auto operation.
TEMP	88.8°C	Temperature adjustment buttons : Adjusts the room temperature when cooling and heating.
	-	On/Off button : Turns the power on/off.
FAN SPEED		Indoor fan speed button : Adjusts the fan speed.
MODE		Operation mode selection button : Selects the operation mode. Cooling operation (❄️) / Auto operation or auto changeover (AI) / Dehumidifying operation (💧) / Heating operation (☀️) / Air circulation (🌀)
JET MODE	Po	Jet cooling/heating button* : Warms up or cools down the indoor temperature within a short period of time.
SWING		Air flow direction button : Adjusts the air flow direction vertically or horizontally.
ROOM TEMP		Temperature display button : Displays the room temperature.
ON OFF	AM 12:00 ON 123	Timer button : Sets the current time and the start / end time.
SILENT ENERGY CONTR ENERGY DISPLAY ACLEAN[3SEC]		Navigation and functions button* : Adjusts the time and sets the special functions. 🔊 Operates SILENT mode / 🔊 Operates Active E/Control mode / 🧼: Auto clean. Press for 3 seconds. Silent Mode and Active E/Control are not available at the same time
SET CLEAR	-	Set/clear button : Sets or cancels functions.
	-	Reset button : Resets the air conditioner settings.
LIGHT	-	LIGHT button : Adjusts the brightness of the indoor unit display.
ENERGY DISPLAY	-	Energy Display button : Set whether or not to display information regarding Energy.

* Some functions may not be supported, depending on the model.

13. Installation

13.1 AS-W0963WB0(G09WL), AS-W1263WB0(G12WL)

Installation Map



* The feature can be changed according to a type of model.

NOTICE

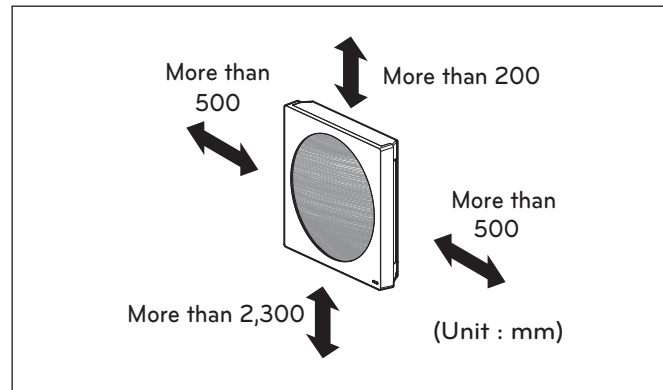
- You should purchase the installation parts.

Select the best Location

Indoor unit

- There should not be any heat or steam near the unit.
- Select a place where there are no obstacles around of the unit.
- Make sure that condensation drainage can be conveniently routed away.
- Do not install near a doorway.
- Ensure that the interval between a wall and the left (or right) of the unit is more than 500mm. The unit should be installed as high as possible on the wall, allowing a minimum of 200mm from ceiling.
- Use a metal detector to locate studs to prevent unnecessary damage to the wall.

* The feature can be changed according to a type of model.



⚠ CAUTION

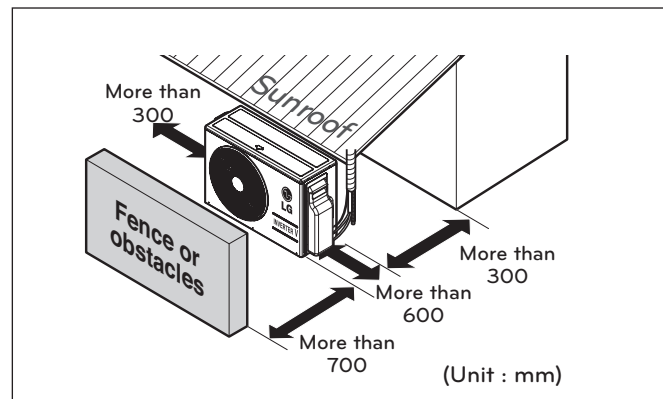
- Install the indoor unit on the wall where the height from the floor is more than 2,300mm.

⚠ WARNING

- Install the installation plate on a flat wall. If a wall is uneven, please make the surface of wall flat. Otherwise, it may cause abnormal noise.
- Ensure that the interval between a wall and the left of the unit is more than 500mm. Otherwise, it may be difficult to take out/in a air filter.

Outdoor unit

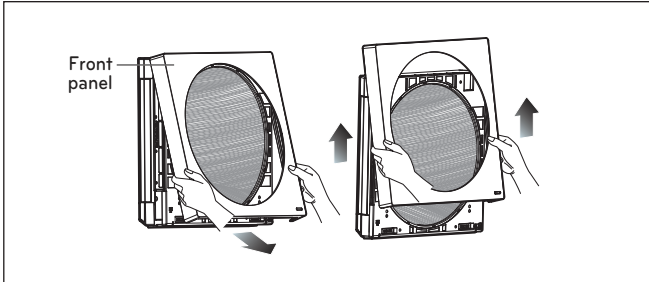
- If an awning is built over the unit to prevent direct sunlight or rain exposure, make sure that heat radiation from the condenser is not restricted.
- Ensure that the space around the back and sides is more than 300mm. The space in front of the unit should be more than 700mm of space.
- Do not place animals and plants in the path of the warm air.
- Take the weight of the air conditioner into account and select a place where noise and vibration are minimum.
- Select a place where the warm air and noise from the air conditioner do not disturb neighbors.



Preparing Work for Installation

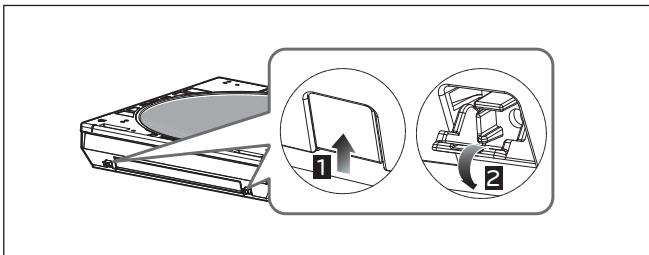
Open the front panel

- 1 Pull out the lower section of front panel and lift it up.

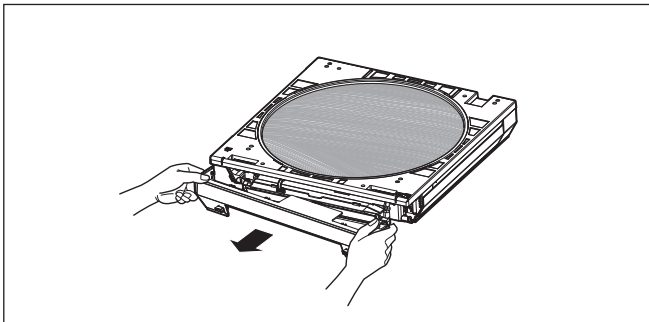


Remove the service cover

- 1 To detach the SVC cover, pull the two screw covers and remove the two screws at the lower part.

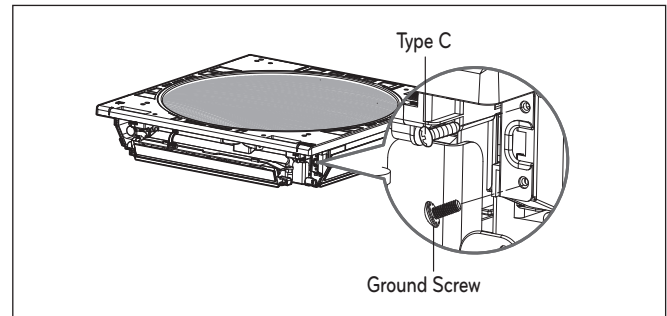


- 2 Pull down the SVC cover.

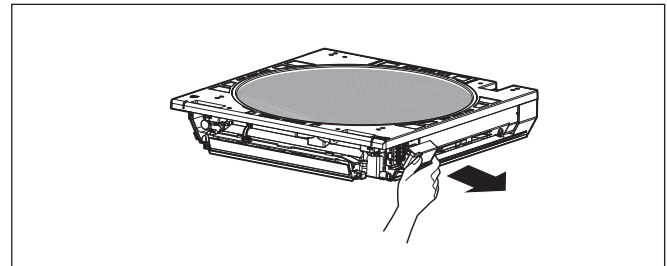


Remove the Terminal block cover

- 1 Remove the one tapite screw and one ground screw at the right side part.

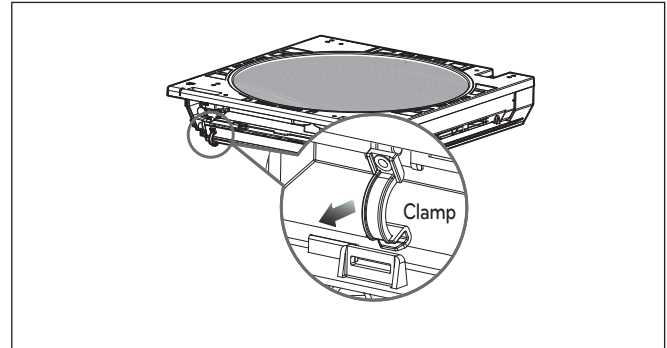


- 2 Detach the terminal block cover.



Detach the clamp

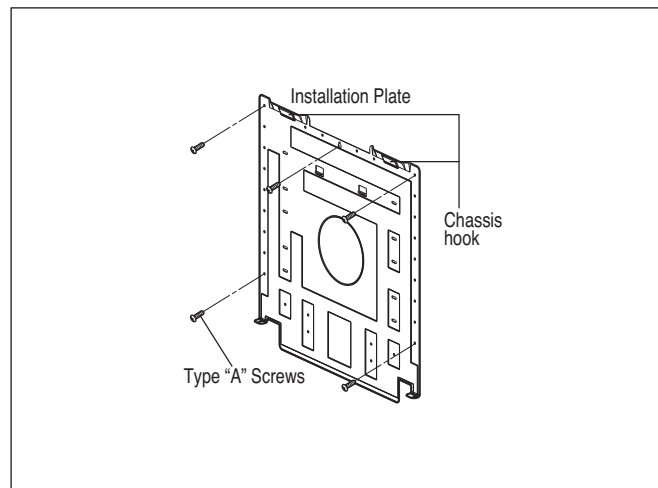
1. Detach the clamp for piping.



Fixing installation Plate

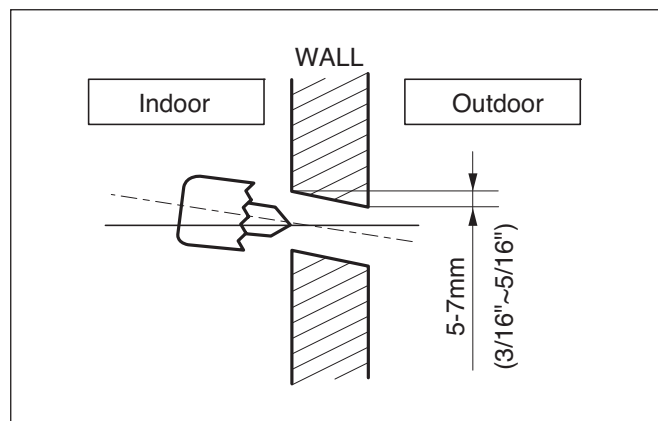
The wall you select should be strong and solid enough to prevent vibration.

- 1 Mount the installation plate on the wall with type "A" screws. If mounting the unit on a concrete wall, use anchor bolts.
 - Mount the installation plate horizontally by aligning the centerline using Horizontal meter .
- 2 Measure the wall and mark the centerline.
It is also important to use caution concerning the location of the installation plate. Routing of the wiring to power outlets is through the walls typically. Drilling the hole through the wall for piping connections must be done safely.



Drill a Hole in the Wall

- Drill the piping hole with a $\varnothing 55\text{mm}$ hole core drill. Drill the piping hole at either the right or the left with the hole slightly slanted to the outdoor side.

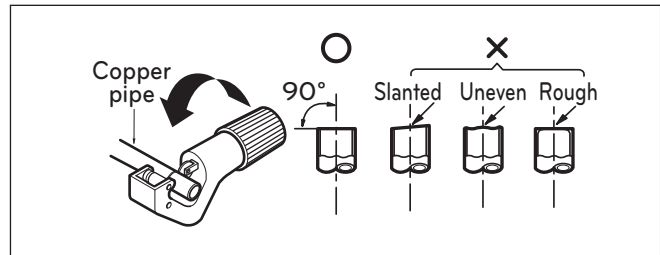


Flaring Work

Main cause for gas leakage is due to defect of flaring work. Carry out correct flaring work in the following procedure.

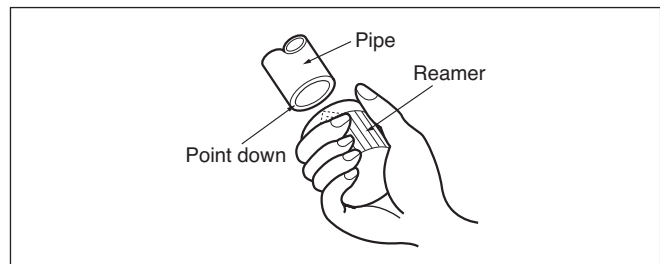
Cut the pipes and the cable

- 1 Use the piping kit accessory or the pipes purchased locally.
- 2 Measure the distance between the indoor and the outdoor unit.
- 3 Cut the pipes a little longer than measured distance.
- 4 Cut the cable 1.5m longer than the pipe length.



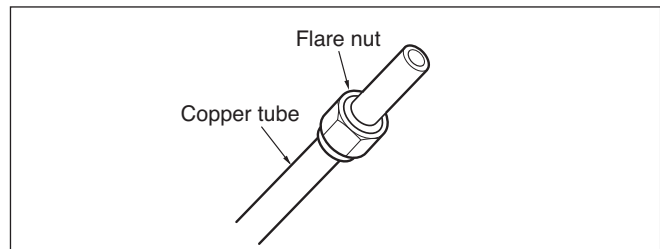
Burrs removal

- 1 Completely remove all burrs from the cut cross section of pipe/tube.
- 2 While removing burrs put the end of the copper tube/pipe in a downward direction while removing burrs location is also changed in order to avoid dropping burrs into the tubing.



Putting nut on

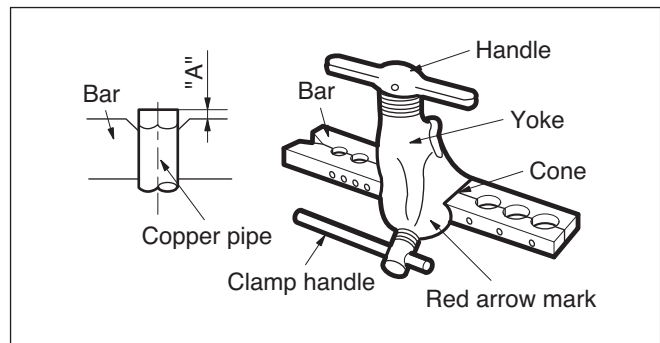
- Remove flare nuts attached to indoor and outdoor unit, then put them on pipe/tube having completed burr removal.
(not possible to put them on after finishing flare work)



Flaring work

1. FFirmly hold copper pipe in a bar with the dimension shown in below table table below.

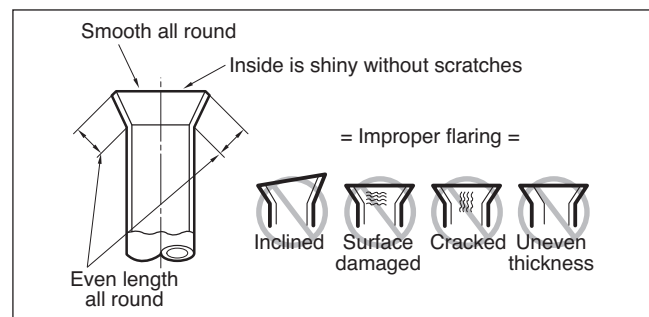
Outside diameter		A	Thickness
mm	inch	mm	mm
Ø6.35	1/4"	1.1~1.3	0.7
Ø9.52	3/8"	1.5~1.7	0.8
Ø12.7	1/2"	1.6~1.8	0.8
Ø15.88	5/8"	1.6~1.8	1.0



2. Carry out flaring work with the flaring tool.

Check

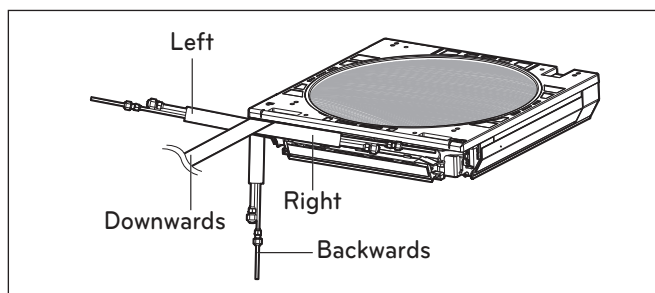
- 1 Compare the flared work with the figure by.
- 2 If a flared section is defective, cut it off and do flaring work again.



Connecting the Piping

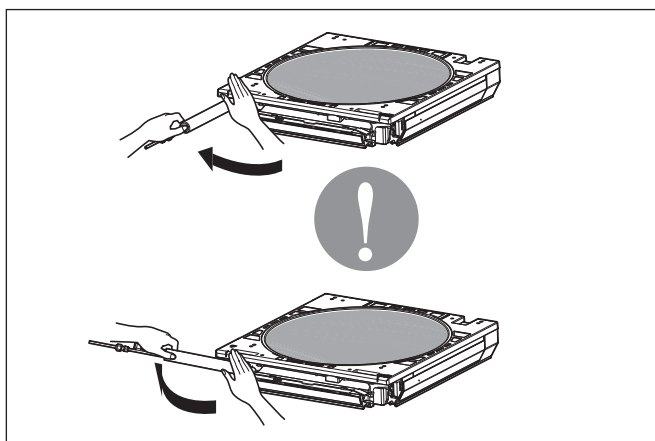
Preparing the indoor units piping and drain hose for installation through the wall.

- 1 Route the indoor tubing and the drain hose in the direction of rear left or right.



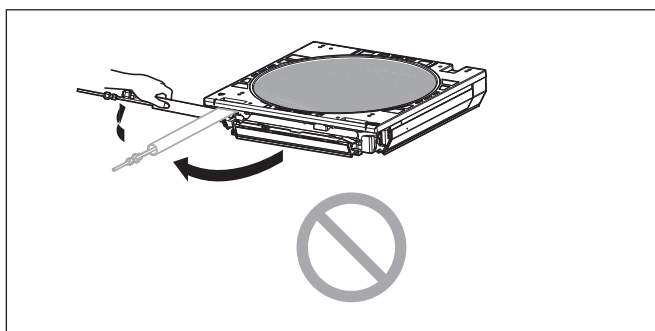
Good case

- Press on the tubing cover and unfold the tubing to downward slowly. And then bend to the left side slowly.



Bad case

- Following bending case from right to left directly may cause damage to the tubing.



* The feature can be changed according to a type of model.

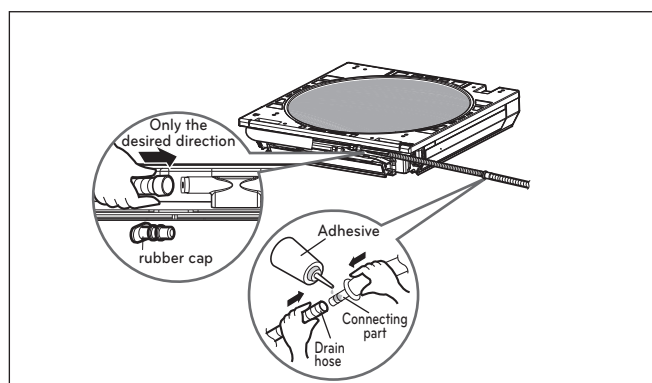
⚠ WARNING

Installation Information. For right piping. Follow the instruction above.

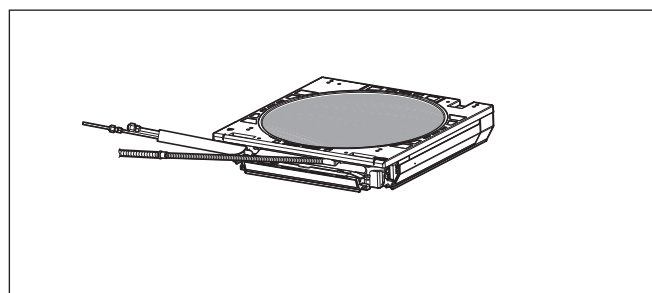
Drain hose junction

- 1 Remove the rubber stopple in the desired drain direction.
- 2 Insert drain hose into the handle of drain pan, and join drain hose and connecting hose according to the figure by.

<Right side piping>



<Left side piping>

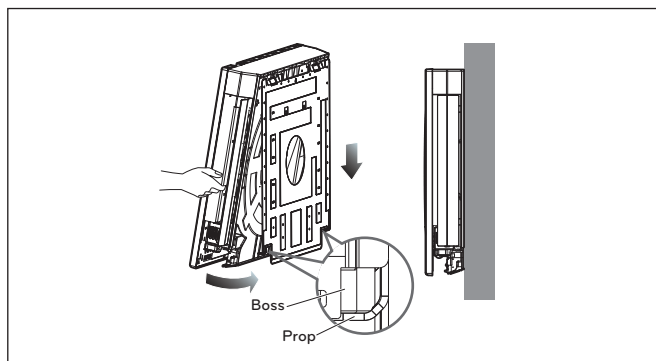


NOTICE

- When installing drain hose, make sure the drain hose goes through the nearest pipe hole.

Installation of Indoor Unit

Hook the indoor unit onto the upper portion of the installation plate.(engage the two hooks at the top of the indoor unit with the upper edge of the installation plate)
Ensure that the hooks are properly seated on the installation plate by moving it left and right.



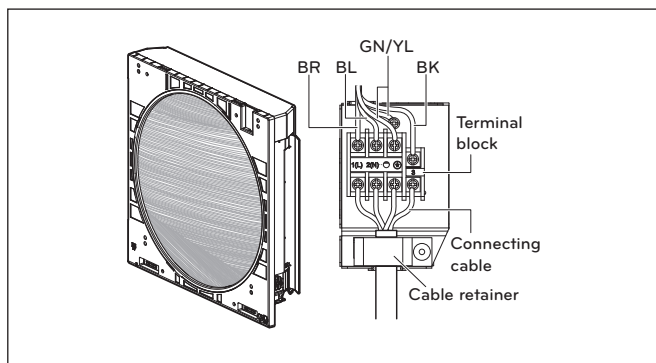
⚠ CAUTION

Ensure that you put the boss of the chassis on the prop of the installation plate and mate the hole of the chassis with the hole of the installation plate.

* The feature can be changed according to a type of model.

Piping

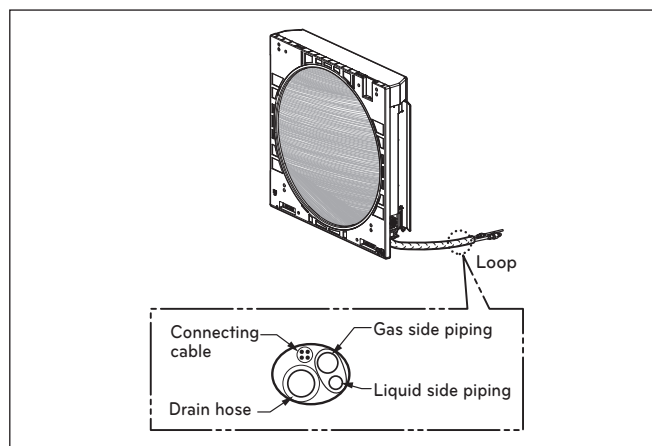
- 1 Insert the connecting cable through the bottom side of indoor unit and connect the cable (You can see detail contents in Connecting the cables section)



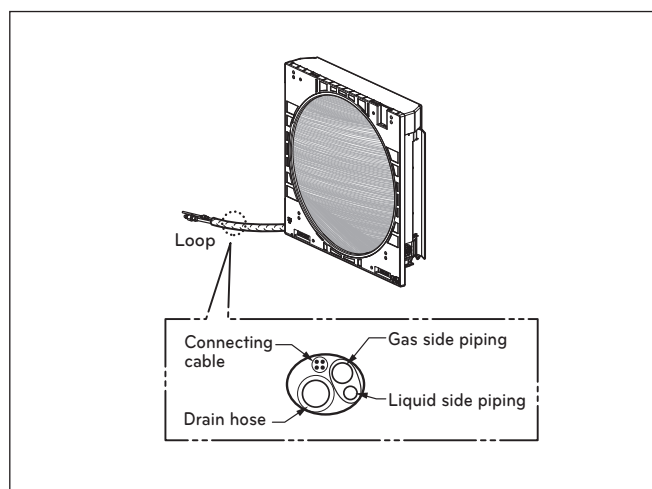
- 2 Secure the cable onto the control board with the cable retainer.

- 3 Tape the tubing pipe, drain hose and the connection cable. Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause overflow from the drain pan through the inside of the unit.

<Right side piping>



<Left side piping>



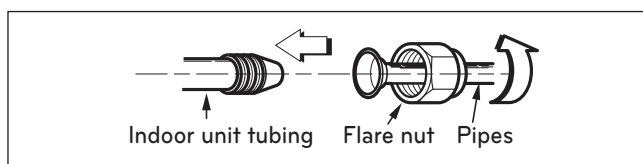
⚠ CAUTION

If the drain hose is routed inside the room, insulate the hose with an insulation material* so that dripping from "sweating"(condensation) will not damage furniture or floors.

* Foamed polyethylene or equivalent is recommended.

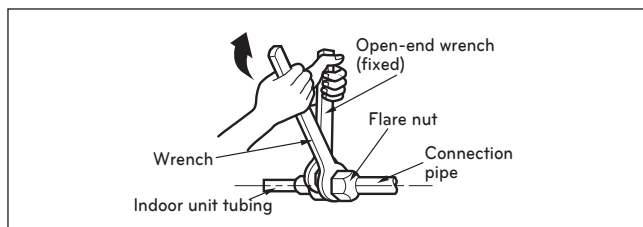
Connecting the installation pipe and drain hose to the indoor unit.

1. Align the center of the pipes and sufficiently tighten the flare nut by hand

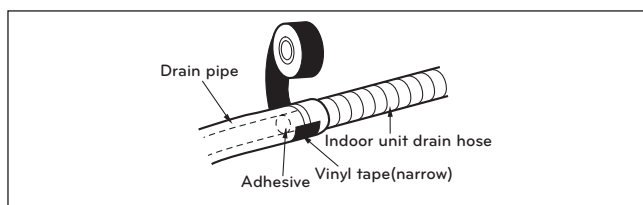


2. Tighten the flare nut with a wrench

Outside Diameter		Torque	
mm	inch	kgf·cm	N·m
Ø6.35	1/4	180~250	17.6~24.5
Ø9.52	3/8	340~420	33.3~41.2
Ø12.7	1/2	550~660	53.9~64.7
Ø15.88	5/8	630~820	61.7~80.4

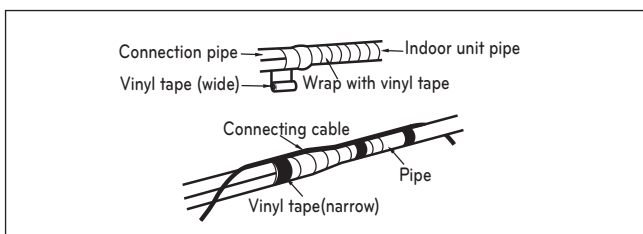
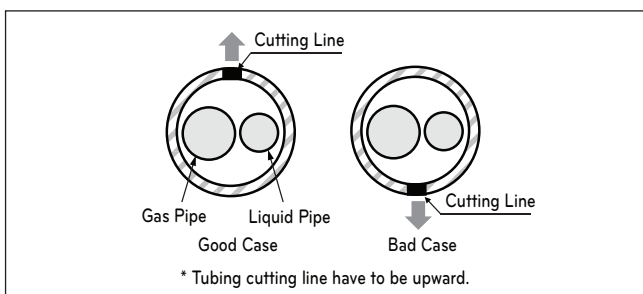
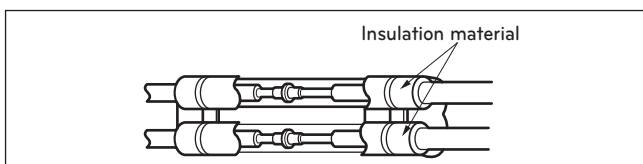


3. When needed to extend the drain hose of indoor unit, assembly the drain pipe as shown on the drawing

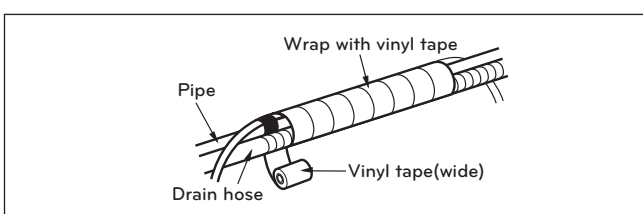


Wrap the insulation material around the connecting portion.

1. Overlap the connection pipe insulation material and the indoor unit pipe insulation material. Bind them together with vinyl tape so that there may be no gap.
2. Set the tubing cutting line upward. Wrap the area which accommodates the rear piping housing section with vinyl tape.

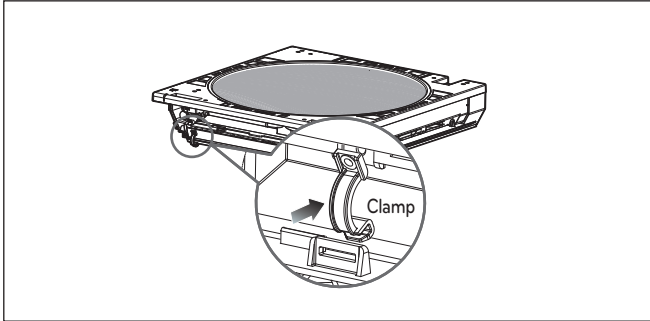


3. Bundle the piping and drain hose together by wrapping them with vinyl tape sufficient enough to cover where they fit into the rear piping housing section.

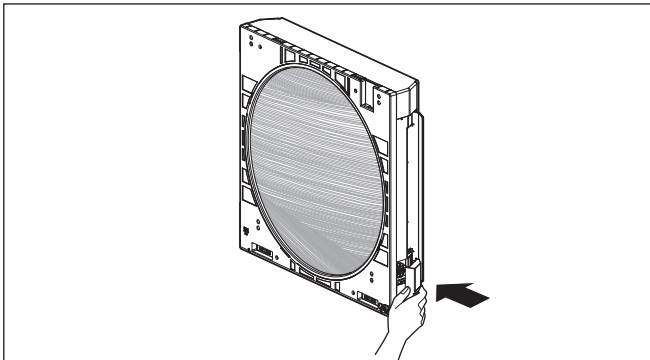


Finishing the indoor unit installation

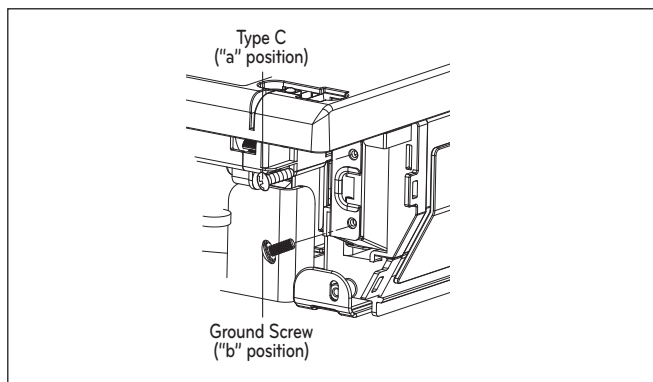
- 1 Assemble the clamp for piping and screw it up.



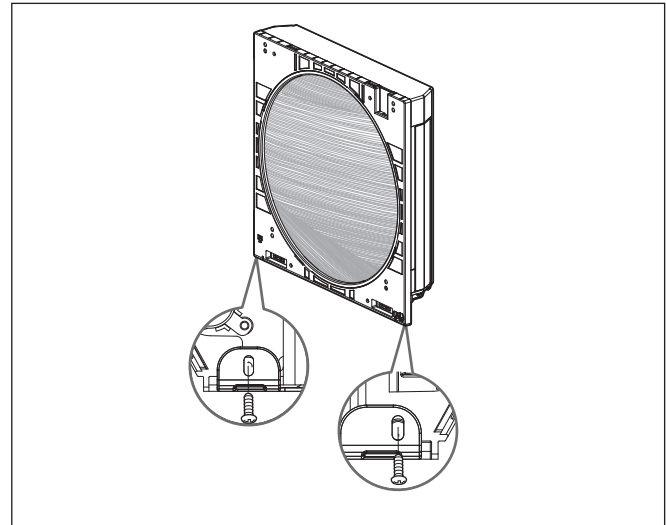
- 2 Assemble the terminal block cover.



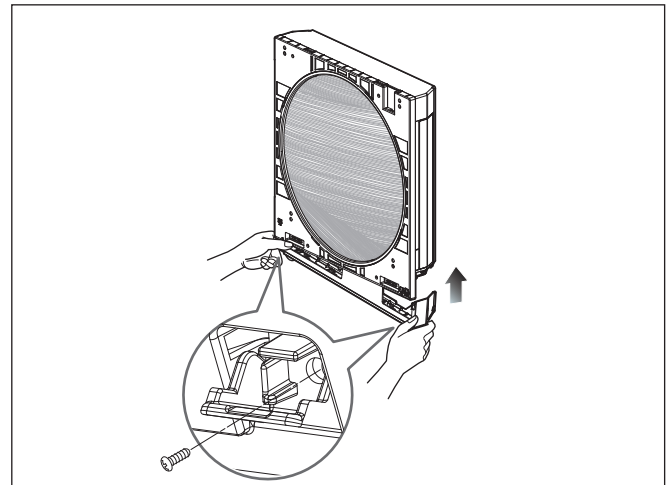
- 3 Screw up the terminal block cover as the initial condition. (Screw up the terminal block cover and the inlet grille with type "C" screw at "a" position, and the terminal block cover and the case with the ground screw at "b" position.)



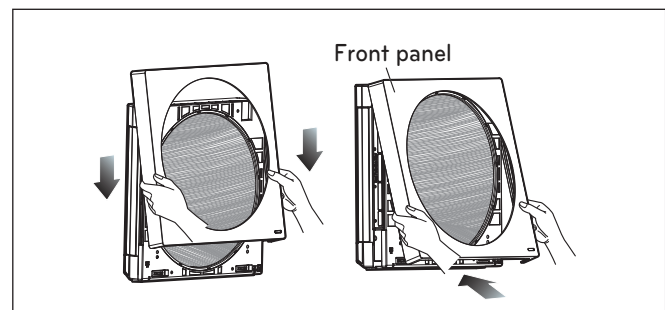
- 4 Finish the assembly by screwing the unit to the installation plate by using two pieces of type "C" screws.



- 5 Assemble the service cover and screw it up.

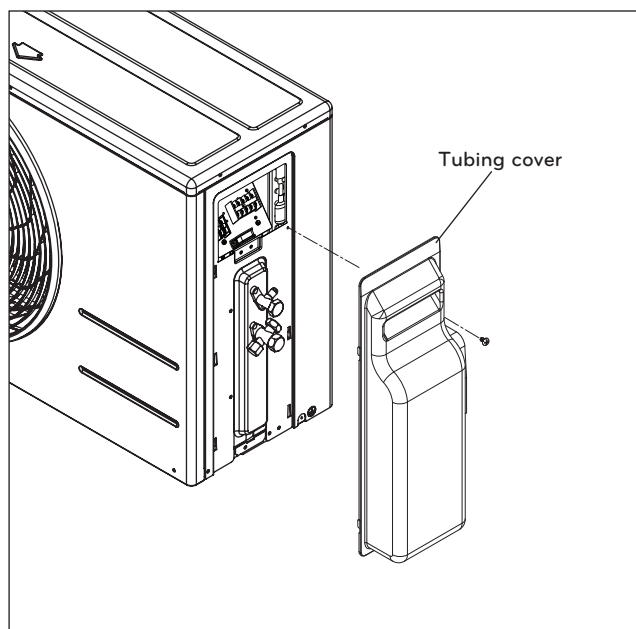


- 6 Assemble the front panel.

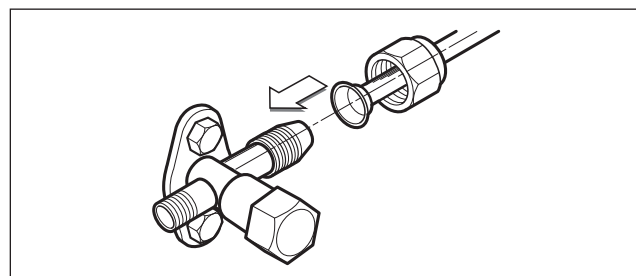


Outdoor unit

- 1 Remove the tubing cover from the unit by loosening the screw.

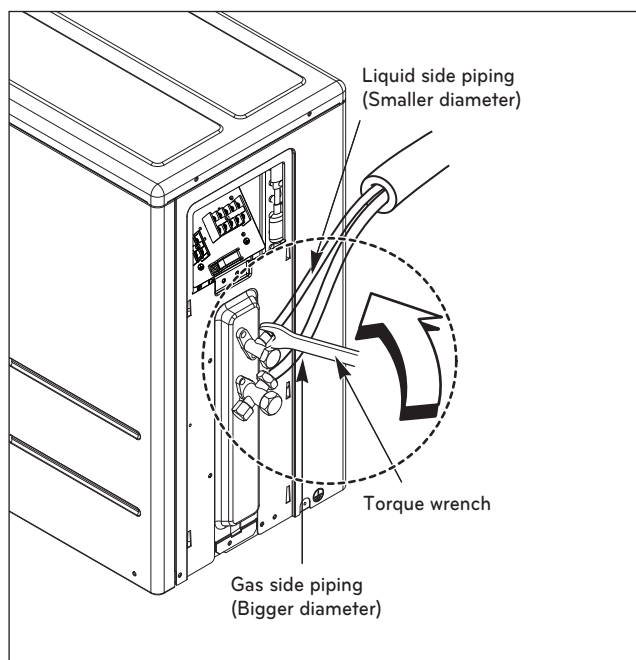


- 2 Align the center of the pipings and sufficiently tighten the flare nut by hand.



- 3 Finally, tighten the flare nut with torque wrench until the wrench clicks.
- When tightening the flare nut with torque wrench, ensure the direction for tightening follows the arrow on the wrench.

Outside Diameter		Torque	
mm	inch	kgf·cm	N·m
Ø6.35	1/4	180~250	17.6~24.5
Ø9.52	3/8	340~420	33.3~41.2
Ø12.7	1/2	550~660	53.9~64.7
Ø15.88	5/8	630~820	61.7~80.4



Connecting the Cables

Indoor

Connect the cable to the indoor unit by connecting the wires to the terminals on the control board individually according to the outdoor unit connection. (Ensure that the color of the wires of the outdoor unit and the terminal No. are the same as those of the indoor unit.)

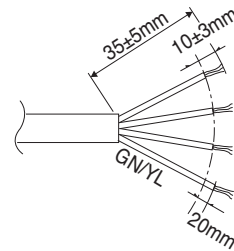
⚠ CAUTION

- The circuit diagram is a subject to change without notice.
- The earth wire should be longer than the common wires.
- When installing, refer to the circuit diagram on the chassis cover.
- Connect the wires firmly so that they may not be pulled out easily.
- Connect the wires according to color codes, referring to the wiring diagram.

The power connecting cable with indoor and outdoor unit should be selected according to the following national wiring regulations.

The supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord.

(code designation 60245 IEC 57, H05RN-F)



(mm²)

NOMINAL CROSS -SECTIONAL AREA	Grade
	2.5kW~3.5kW
	1.0

⚠ CAUTION

The power cord connected to unit should be selected according to the following national wiring regulations.

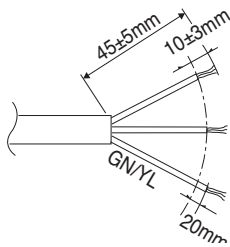
The supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord.

(code designation 60245 IEC 57, H05RN-F)

Indoor

- Connect the wires to the terminals on the control board individually.
- Secure the cable onto the control board with the cord clamp.
- Use a recognized circuit breaker between the power source and the unit.

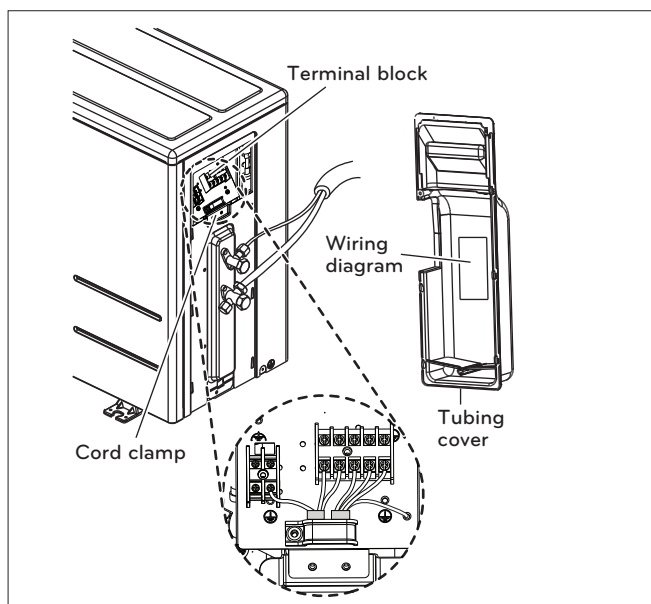
A disconnecting device to adequately disconnect all supply lines must be fitted.



(mm²)

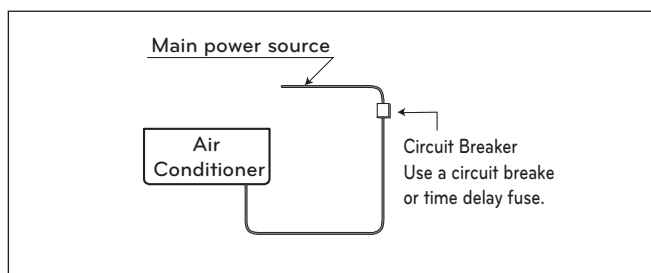
NOMINAL CROSS - SECTIONAL AREA	Grade
	2.5kW~3.5kW
	1.0

Circuit Breaker(A)	Grade
	2.5kW~3.5kW
	15



⚠ CAUTION

Provide the circuit breaker between power source and the unit as shown by



⚠ CAUTION

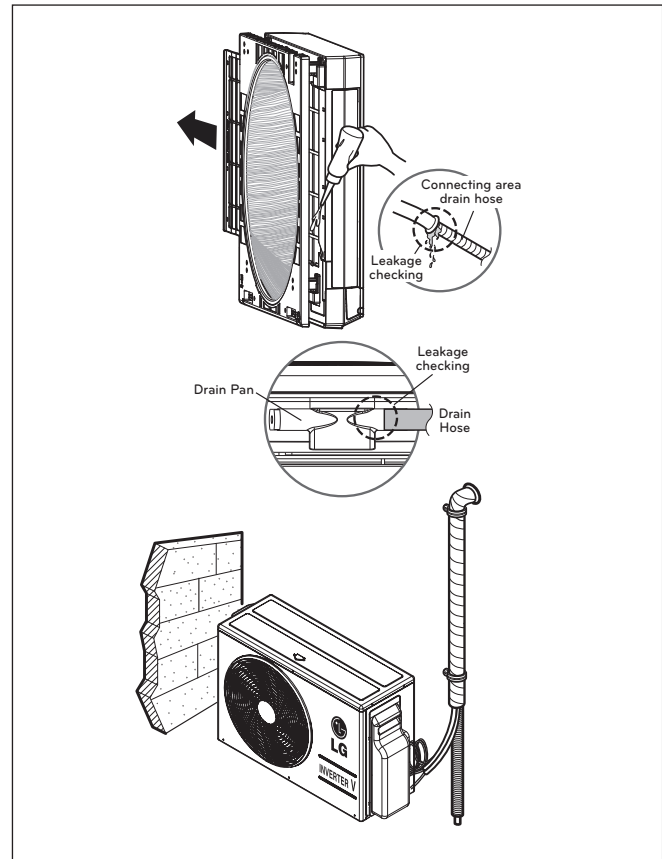
According to the confirmation of the above conditions, prepare the wiring as follows.

- 1 Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, be guided by the circuit diagram posted on the inside of control cover.
- 2 The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could cause burn-out of the wires.)
- 3 Specification of power source.
- 4 Confirm that electrical capacity is sufficient.
- 5 See that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
- 6 Confirm that the cable thickness is as specified in the power source specification. (Particularly note the relation between cable length and thickness.
- 7 Always install an earth leakage circuit breaker in a wet or moist area.
- 8 The following would be caused by voltage drop.
 - Vibration of a magnetic switch, which will damage the contact point, fuse breaking, disturbance of the normal function of the overload.
- 9 The means for disconnection from a power supply shall be incorporated in the fixed wiring and have an air gap contact separation of at least 3mm in each active(phase) conductors.

Checking the Drainage

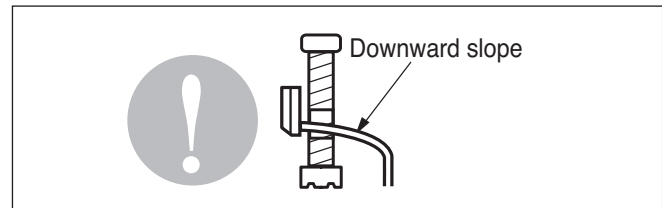
To check the drainage.

- 1 Pour a glass of water on the evaporator.
- 2 Ensure the water flows through the drain hose of the indoor unit without any leakage and goes out the drain exit.

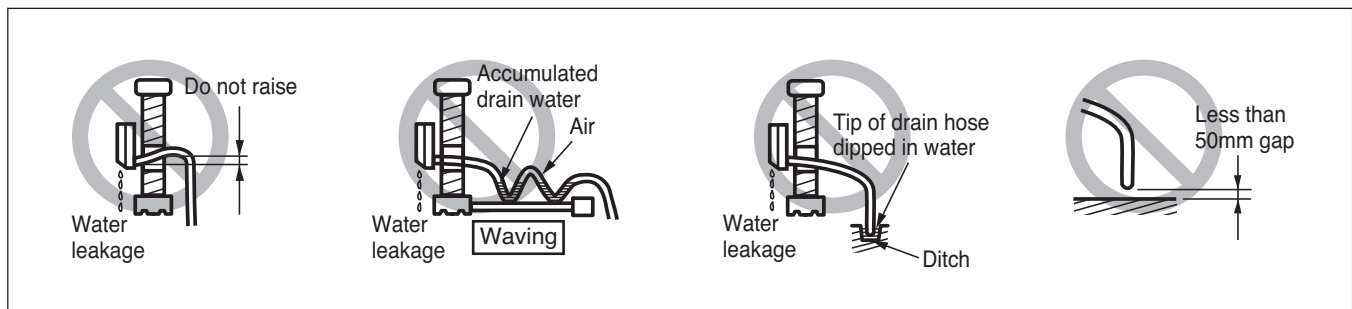


Drain piping

1. The drain hose should point downward for easy drain flow.



2. Do not make drain piping like the following.

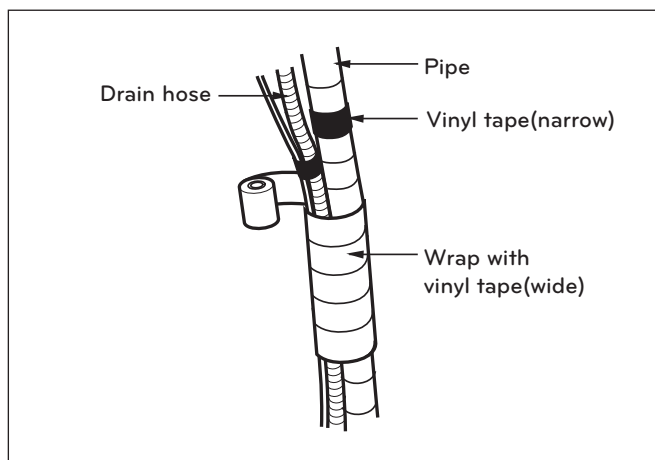


* The feature can be changed according to type of model.

Forming the Piping

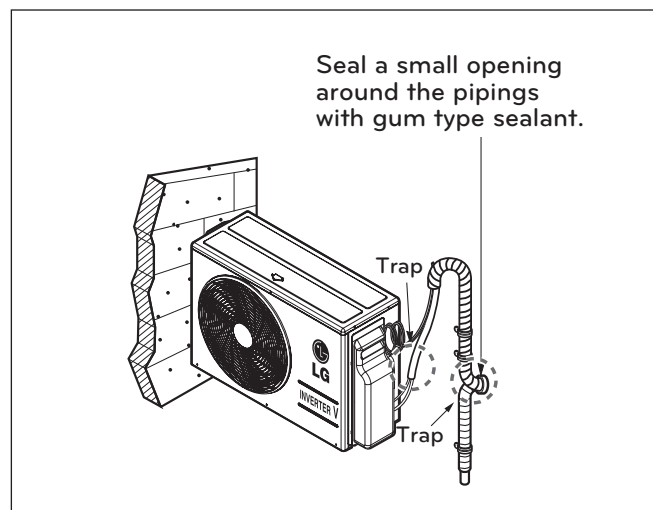
Form the piping by wrapping the connecting portion of the indoor unit with insulation material and secure it with two kinds of vinyl tapes.

- If you want to connect an additional drain hose, the end of the drain outlet should be routed above the ground. Secure the drain hose appropriately.



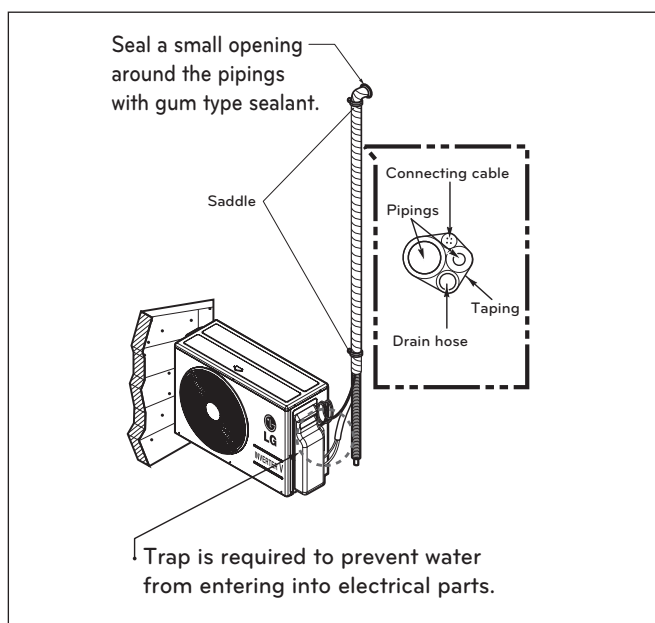
In cases where the Outdoor unit is installed above the Indoor unit perform the following.

- 1 Tape the piping and connecting cable from down to up.
- 2 Secure the taped piping along the exterior wall. Form a trap to prevent water entering the room.
- 3 Fix the piping onto the wall using saddle or equivalent.



In cases where the outdoor unit is installed below the indoor unit perform the following.

1. Tape the piping, drain hose and connecting cable from down to up.
2. Secure the tapped piping along the exterior wall using saddle or equivalent.



Air Purging

The air and moisture remaining in the refrigerant system have undesirable effects as indicated below.

- 1 Pressure in the system rises.
 - 2 Operating current rises.
 - 3 Cooling(or heating) efficiency drops.
 - 4 Moisture in the refrigerant circuit may freeze and block capillary tubing.
 - 5 Water may lead to corrosion of parts in the refrigeration system.
- Therefore, after evacuating the system, take a leak test for the piping and tubing between the indoor and outdoor unit.

Air purging with vacuum pump

1. Preparation

- Check that each tube(both liquid and gas side tubes) between the indoor and outdoor units have been properly connected and all wiring for the test run has been completed. Remove the service valve caps from both the gas and the liquid side on the outdoor unit. Note that both the liquid and the gas side service valves on the outdoor unit are kept closed at this stage.

2. Leak test

- Connect the manifold valve(with pressure gauges) and dry nitrogen gas cylinder to this service port with charge hoses.

⚠ CAUTION

Be sure to use a manifold valve for air purging. If it is not available, use a stop valve for this purpose. The knob of the 3-way valve must always be kept close.

- Pressurize the system to maximum 17.6kg/cm²G (R-22 model) or 28.1kg/cm²G (R-410A model) with dry nitrogen gas and close the cylinder valve when the gauge reading reaches 17.6kg/cm²G (R-22 model) or 28.1kg/cm²G (R-410A model). Next step is leak test with liquid soap.

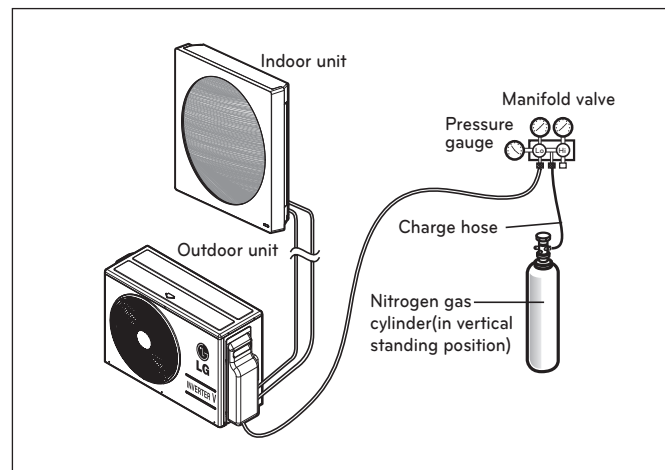
⚠ CAUTION

To avoid nitrogen entering the refrigerant system in a liquid state, the top of the cylinder must be higher than its bottom when you pressurize the system. Usually, the cylinder is used in a vertical standing position.

⚠ CAUTION

⚠ There is a risk of fire and explosion. Inert gas (nitrogen) should be used when you check plumbing leaks, cleaning or repairs of pipes etc. If you are using combustible gases including oxygen, product may have the risk of fires and explosions.

- Do a leak test of all joints of the tubing(both indoor and outdoor) and both gas and liquid side service valves. Bubbles indicate a leak. Be sure to wipe off the soap with a clean cloth.
- After the system is found to be free of leaks, relieve the nitrogen pressure by loosening the charge hose connector at the nitrogen cylinder. When the system pressure is reduced to normal, disconnect the hose from the cylinder.



Soap water method

1. Remove the caps from the 2-way and 3-way valves.
2. Remove the service-port cap from the 3-way valve.
3. Apply a soap water or a liquid neutral detergent on the indoor unit connection or outdoor unit connections by a soft brush to check for leakage of the connecting points of the piping.
4. If bubbles come out, the pipes have leakage

Evacuation

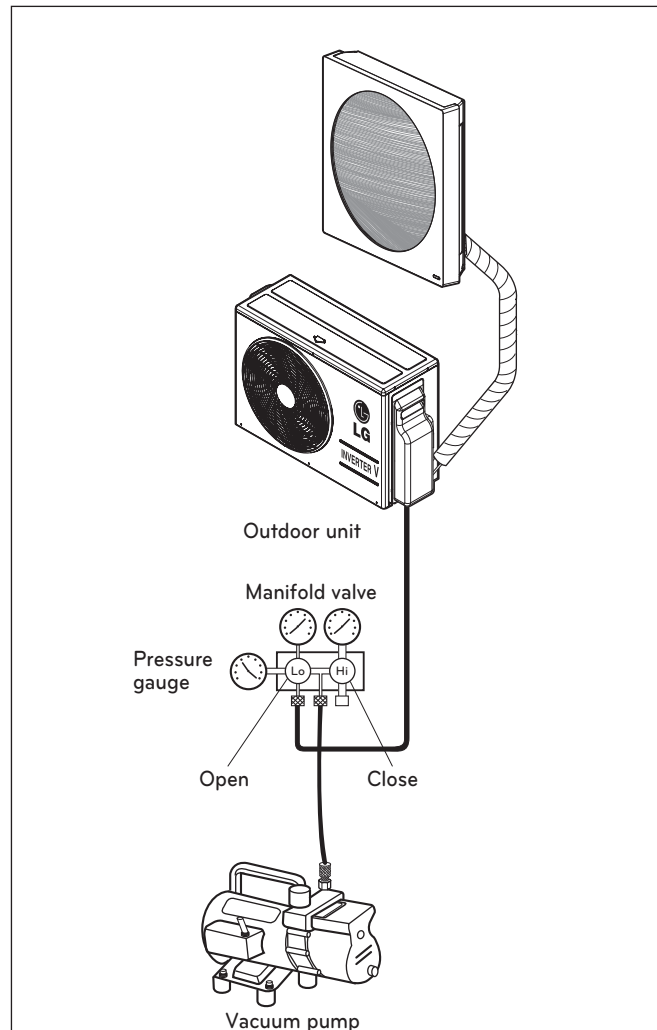
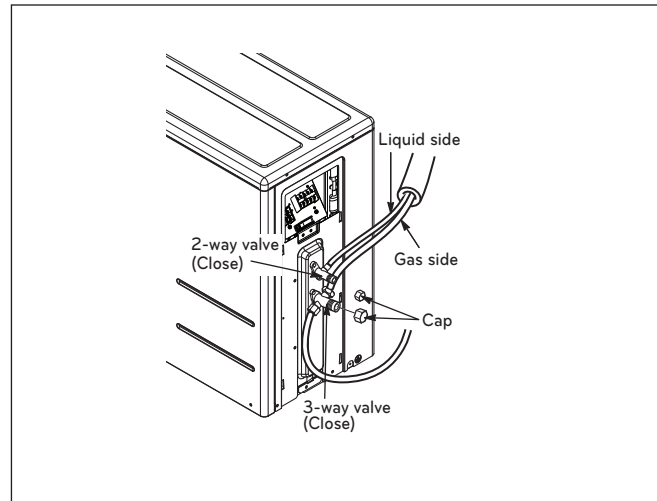
1. Connect the charge hose end described in the preceding steps to the vacuum pump to evacuate the tubing and indoor unit. Confirm the "Lo" knob of the pressure Gauge is open. Then, run the vacuum pump. The operation time for evacuation varies with tubing length and capacity of the pump. The following table shows the time required for evacuation.

Required time for evacuation when 30 gal/h vacuum pump is used	
If tubing length is less than 10m (33 ft)	If tubing length is longer than 10m (33 ft)
10 min. or more	15 min. or more

2. When the desired vacuum is reached, close the knob of the 3-way valve and stop the vacuum pump.

Finishing the Job

- With a service valve wrench, turn the valve of liquid side counter-clockwise to fully open the valve
- Turn the valve of gas side counter clockwise to fully open the valve
- Loosen the charge hose connected to the gas side service port slightly to release the pressure, then remove the hose.
- Replace the flare nut and its bonnet on the gas side service port and fasten the flare nut securely with an adjustable wrench. This process is very important to prevent leakage from the system
- Replace the valve caps at both gas and liquid side service valves and fasten them tight. This completes air purging with a vacuum pump.
- Replace the pipe cover to the outdoor unit by one screw. Now the air conditioner is ready for test run.



Test Running

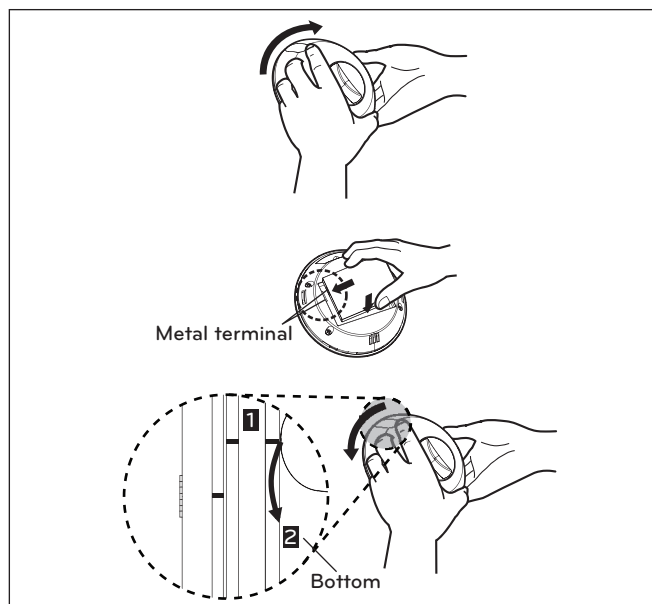
1. Check that all tubing and wiring are properly connected.
2. Check that the gas and liquid side service valves are fully open.

Prepare remote controller

1. Open the bottom of remote control with turning it clockwise.
2. Insert the battery. (Match the metal terminals between remote control and battery.)
3. Align the lines with each other, close the bottom of the remote control with turning it counterclockwise.

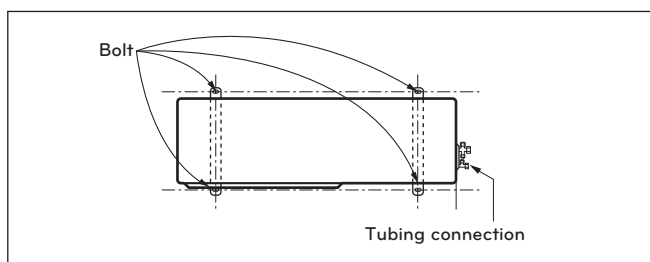
NOTICE

- Remove the batteries from the remote controller if the system is not used for a long time



Settlement of outdoor unit

1. Fix the outdoor unit with a bolt and nut ($\phi 10\text{mm}$) tightly and horizontally on a concrete or rigid mount.
2. When installing on the wall, roof or rooftop, anchor the mounting base securely with a nail or wire assuming the influence of wind and earthquake.
3. If the vibration of the unit is transmitted to the pipe, secure the unit with an anti-vibration rubber.



Evaluation of the performance

Operate the unit for 15~20 minutes, then check the system refrigerant charge:

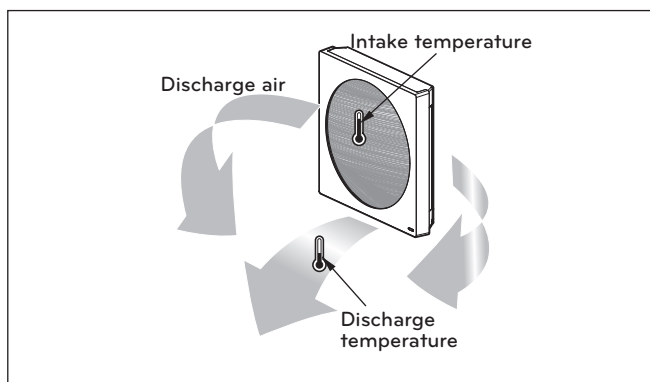
1. Measure the pressure of the gas side service valve.
2. Measure the air temperature from inlet and outlet of air conditioner.
3. Ensure the difference between the inlet and outlet temperature is more than 8°C .
4. For reference; the gas side pressure at optimum condition is shown on table (cooling)

The air conditioner is now ready to use.

Refrigerant	Outside ambient TEMP.	The pressure of the gas side service valve.
R-22	35°C (95°F)	$4\sim 5\text{kg}/\text{cm}^2\text{G}$ ($56.8\sim 71.0$ P.S.I.G.)
R-410A	35°C (95°F)	$8.5\sim 9.5\text{kg}/\text{cm}^2\text{G}$ ($120\sim 135$ P.S.I.G.)

NOTICE

If the actual pressure is higher than shown, the system is most likely over-charged, and charge should be removed. If the actual pressure are lower than shown, the system is most likely undercharged, and charge should be added.



Pump Down

This is performed when the unit is relocated or the refrigerant circuit is serviced.

Pump Down means collecting all refrigerant into the outdoor unit without the loss of refrigerant.

CAUTION

Be sure to perform Pump Down procedure in the cooling mode.

Pump Down Procedure

1. Connect a low-pressure gauge manifold hose to the charge port on the gas side service valve.
2. Open the gas side service valve halfway and purge the air in the manifold hose using the refrigerant.
3. Close the liquid side service valve(all the way).
4. Turn on the units operating switch and start the cooling operation.
5. When the low-pressure gauge reading becomes 1 to 0.5kg/cm² G(14.2 to 7.1 P.S.I.G.), fully close the gas side valve and then quickly turn off the unit. Now Pump Down procedure is completed, and all refrigerant is collected into the outdoor unit.

Mode	Indoor temperature	Outdoor temperature
Cooling	18°C ~ 32°C	-10°C ~ 48°C
Heating	16°C ~ 30°C	-15°C ~ 24°C

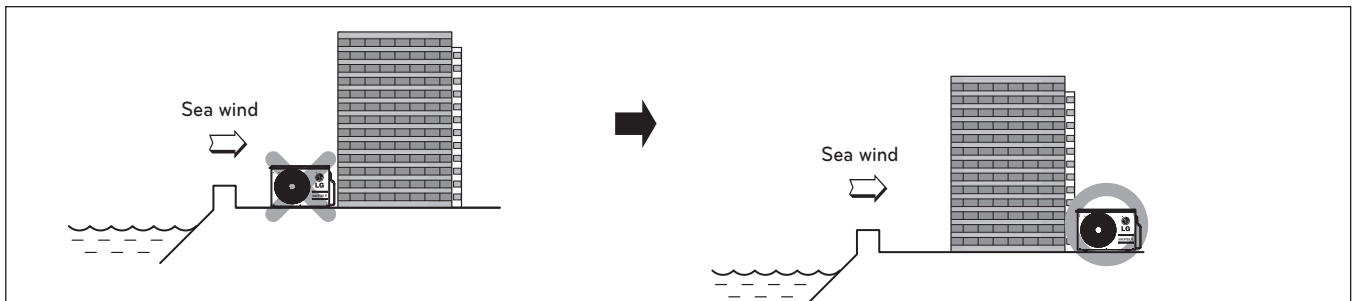
Installation guide at the seaside

⚠ CAUTION

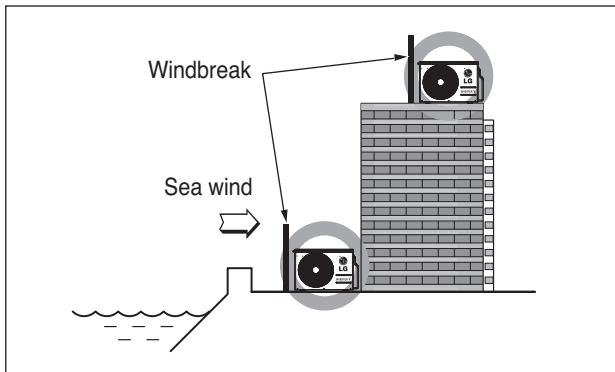
1. Air conditioners should not be installed in areas where corrosive gases, such as acid or alkaline gas, are produced.
2. Do not install the product where it could be exposed to sea wind (salty wind) directly. It can result corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient performance.
3. If outdoor unit is installed close to the seaside, it should avoid direct exposure to the sea wind. Otherwise it needs additional anticorrosion treatment on the heat exchanger.

Selecting the location(Outdoor Unit)

- 1) If the outdoor unit is to be installed close to the seaside, then direct exposure to the sea wind should be avoided. Install the outdoor unit on the opposite side of the sea wind direction.



- 2) In case of installing the outdoor unit on the sea side, setup a windbreak to prevent sea wind.



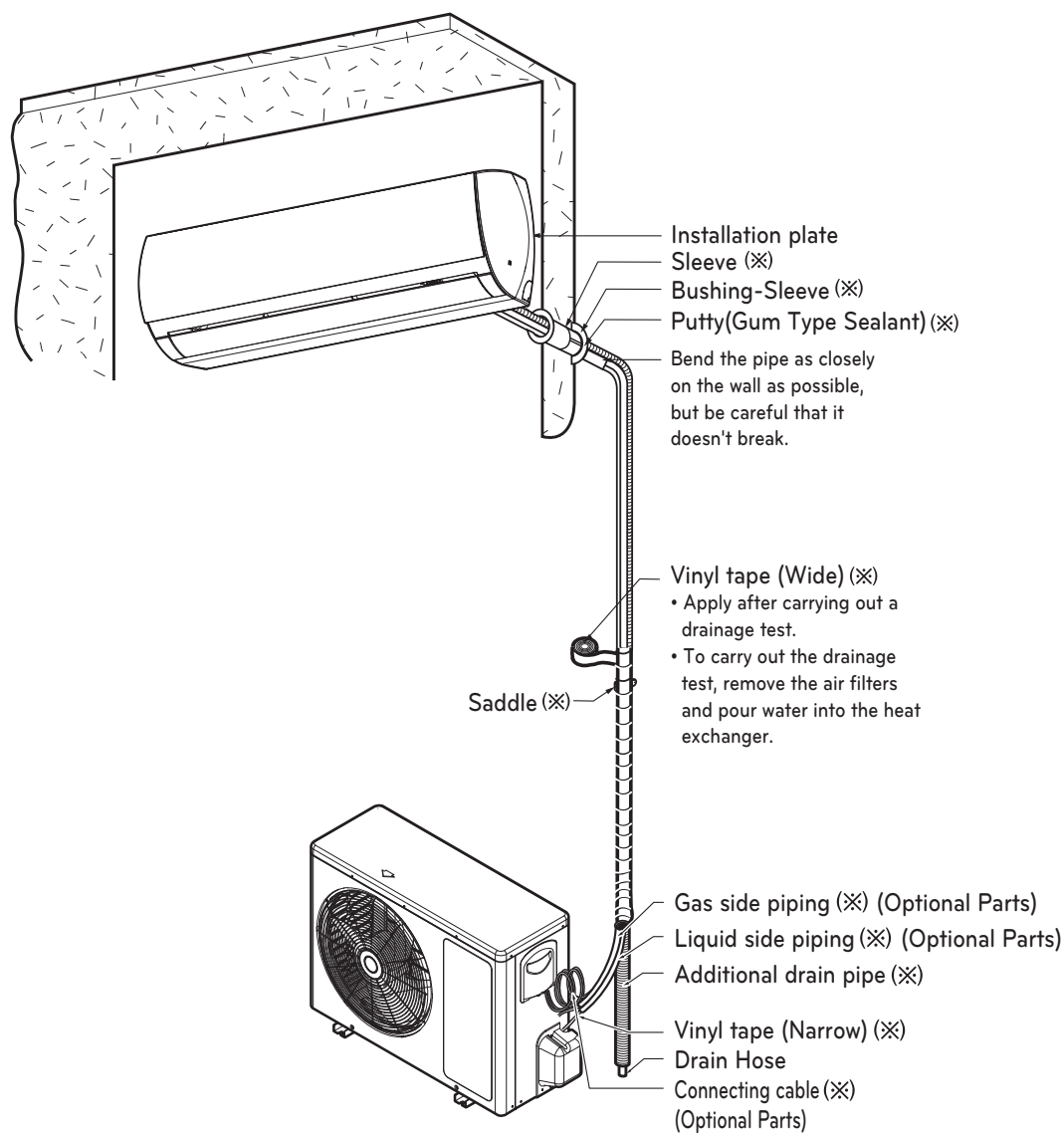
- It should be strong enough like concrete to prevent the sea wind from the sea.
- The height and width should be more than 150% of the outdoor unit.
- Keep more than 70 cm of space between outdoor unit and the windbreak for easy air flow.

- 3) Select a well-drained place.

1. If you can't meet above guide line in the seaside installation, please contact LG Electronics for the additional anticorrosion treatment.
 2. Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchanger by using water
- * Do not use seawater when you clean up the heat exchanger.

13.2 AS-W2462EF0(P24EL)

Installation Map



* The feature can be changed according to type of model.

NOTICE

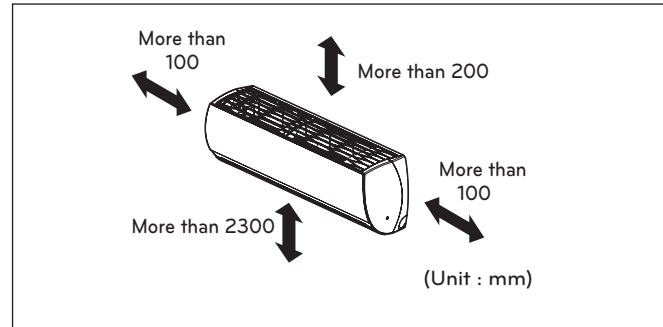
- You should purchase the installation parts.

Select the best Location

Indoor unit

- There should not be any heat or steam near the unit.
- Select a place where there are no obstacles around of the unit.
- Make sure that condensation drainage can be conveniently routed away.
- Do not install near a doorway.
- Ensure that the interval between a wall and the left (or right) of the unit is more than 100mm.
The unit should be installed as high as possible on the wall, allowing a minimum of 200mm from ceiling.
- Use a metal detector to locate studs to prevent unnecessary damage to the wall.

* The feature can be changed according to type of model.

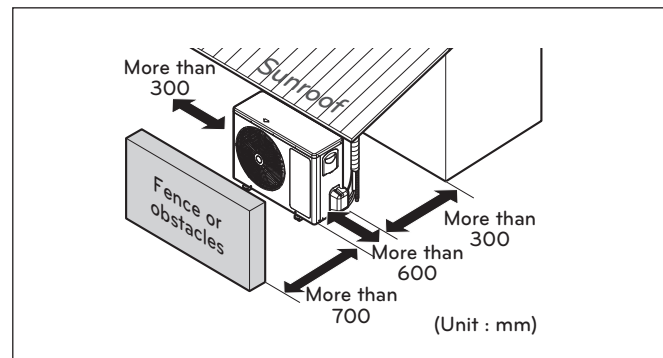


NOTICE

- Install the indoor unit on the wall where the height from the floor is more than 2300mm.

Outdoor unit

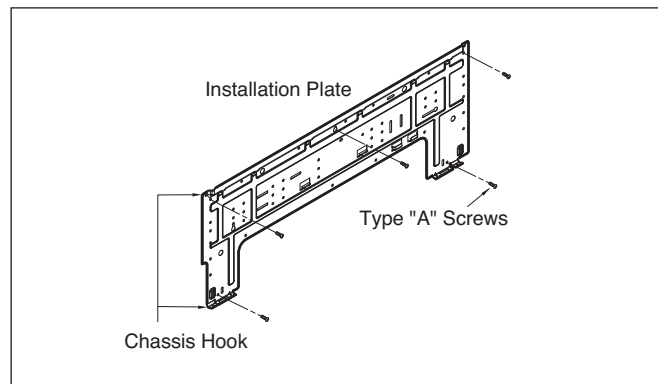
- If an awning is built over the unit to prevent direct sunlight or rain exposure, make sure that heat radiation from the condenser is not restricted.
- Ensure that the space around the back and sides is more than 300mm. The space in front of the unit should be more than 700mm of space.
- Do not place animals and plants in the path of the warm air.
- Take the weight of the air conditioner into account and select a place where noise and vibration are minimum.
- Select a place where the warm air and noise from the air conditioner do not disturb neighbors.



Fixing Installation Plate

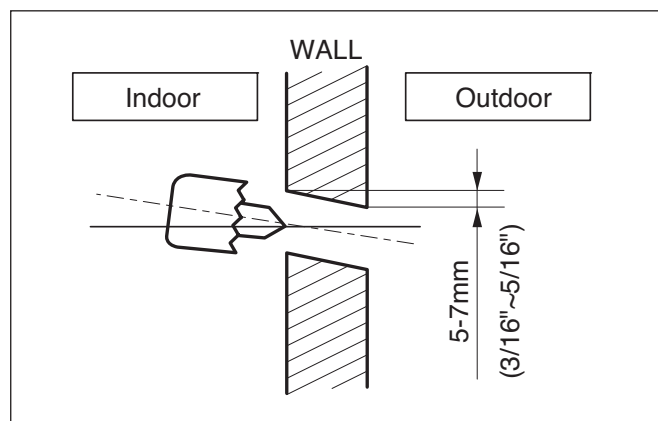
The wall you select should be strong and solid enough to prevent vibration

1. Mount the installation plate on the wall with type "A" screws. If mounting the unit on a concrete wall, use anchor bolts.
 - Mount the installation plate horizontally by aligning the centerline using Horizontal meter .
2. Measure the wall and mark the centerline. It is also important to use caution concerning the location of the installation plate. Routing of the wiring to power outlets is through the walls typically. Drilling the hole through the wall for piping connections must be done safely.



Drill a Hole in the Wall

- Drill the piping hole with a $\phi 65\text{mm}$ hole core drill. Drill the piping hole at either the right or the left with the hole slightly slanted to the outdoor side.

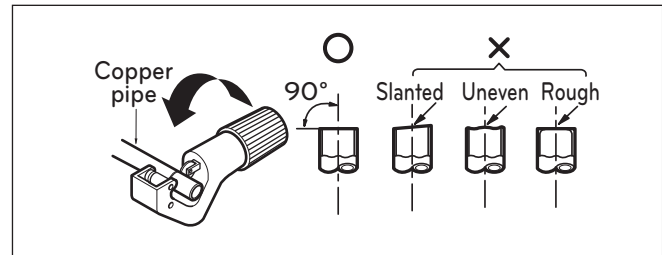


Flaring Work

Main cause for gas leakage is due to defect of flaring work. Carry out correct flaring work in the following procedure.

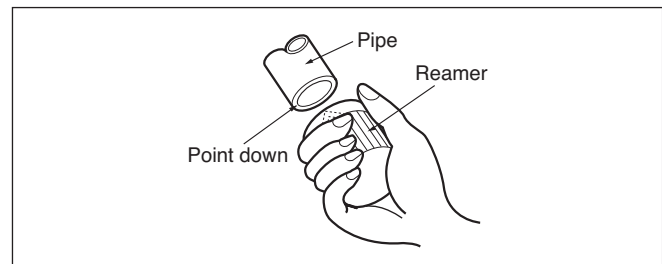
Cut the pipes and the cable

1. Use the piping kit accessory or the pipes purchased locally.
2. Measure the distance between the indoor and the outdoor unit.
3. Cut the pipes a little longer than measured distance.
4. Cut the cable 1.5m longer than the pipe length.



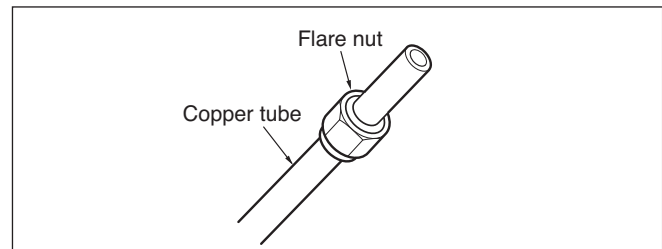
Burrs removal

1. Completely remove all burrs from the cut cross section of pipe/tube.
2. While removing burrs put the end of the copper tube/pipe in a downward direction while removing burrs location is also changed in order to avoid dropping burrs into the tubing.



Putting nut on

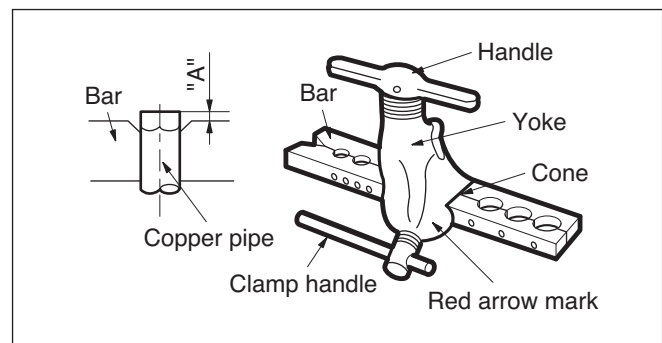
- Remove flare nuts attached to indoor and outdoor unit, then put them on pipe/tube having completed burr removal.
(not possible to put them on after finishing flare work)



Flaring work

1. Firmly hold copper pipe in a bar with the dimension shown in below table below.

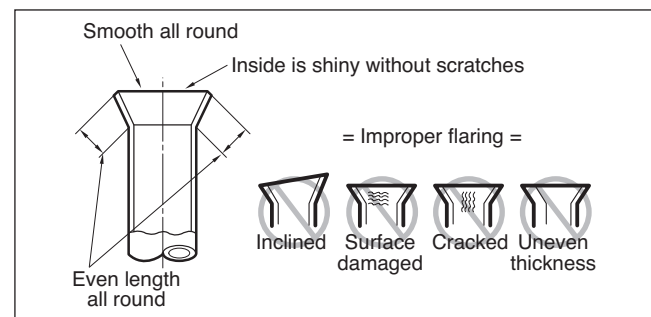
Outside diameter		A	Thickness
mm	inch	mm	mm
Ø6.35	1/4"	1.1~1.3	0.7
Ø9.52	3/8"	1.5~1.7	0.8
Ø12.7	1/2"	1.6~1.8	0.8
Ø15.88	5/8"	1.6~1.8	1.0



2. Carry out flaring work with the flaring tool.

Check

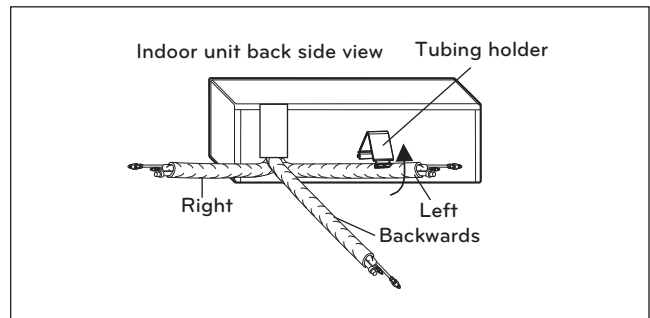
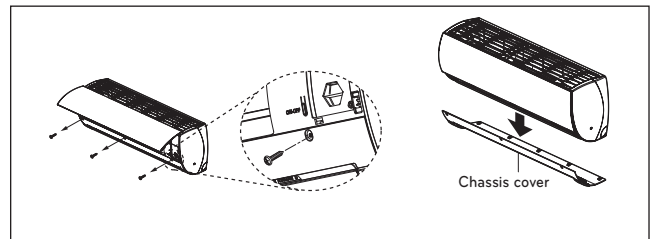
1. Compare the flared work with the figure by.
2. If a flared section is defective, cut it off and do flaring work again.



Connecting the Piping

Indoor unit

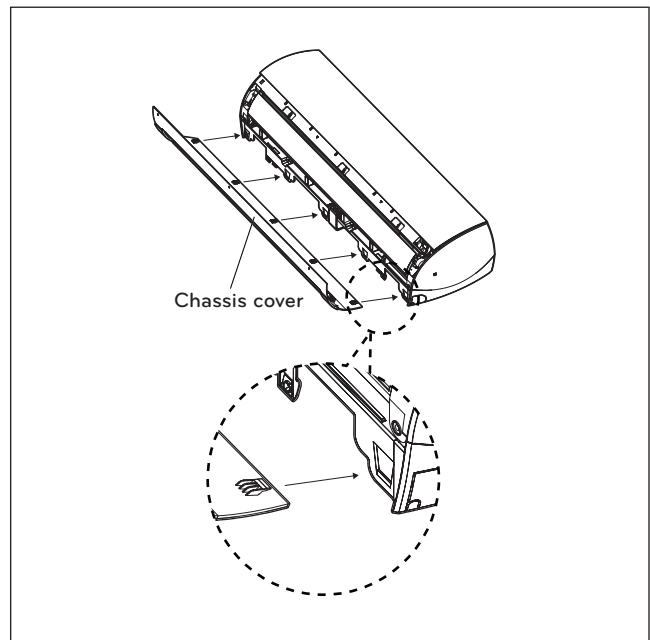
1. Open the panel of the indoor unit.
2. Remove the chassis cover from the unit by loosening 3 screws.
3. Pull back the tubing holder.
4. Remove the pipe port cover and position the piping.



Assembly of chassis cover

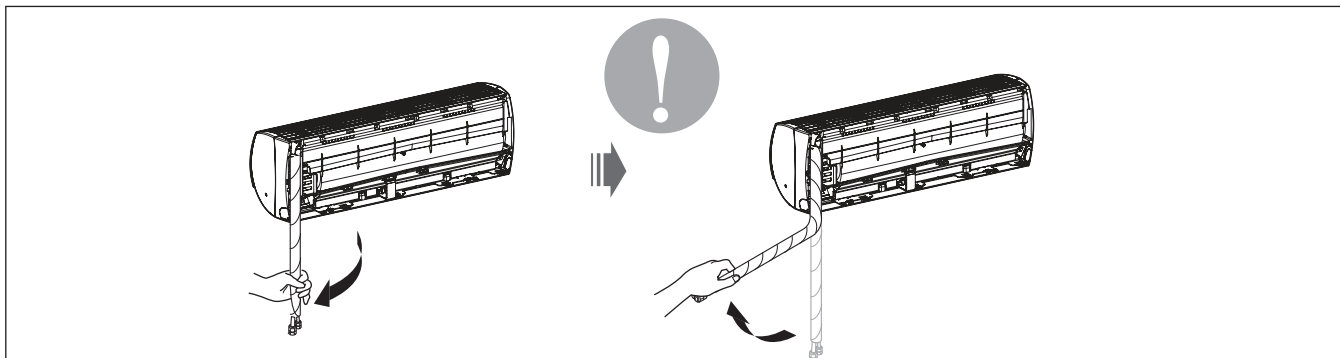
Indoor unit

1. Insert 5 hooks of the chassis cover into the square hole of the chassis carefully.
2. Assemble the chassis cover from the unit by joining 3 screws.



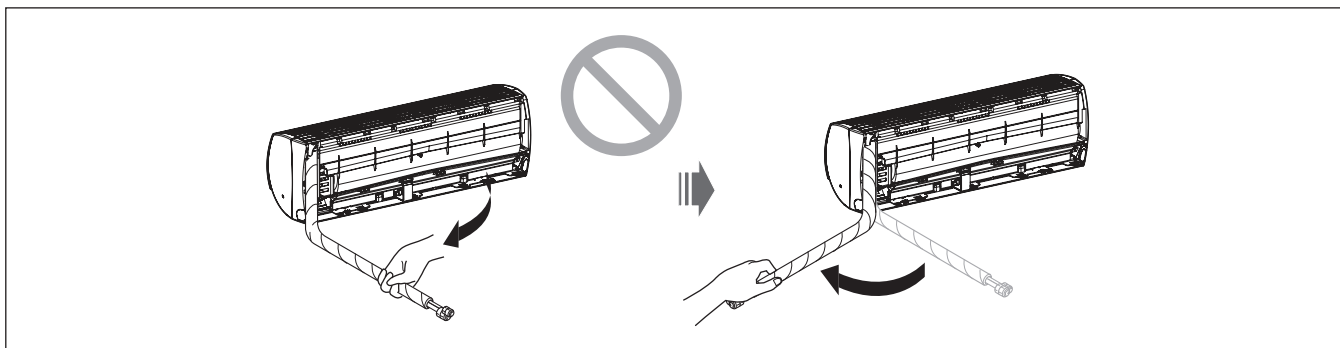
Good case

- Press on the tubing cover and unfold the tubing to downward slowly. And then bend to the left side slowly.



Bad case

- Following bending case from right to left directly may cause damage to the tubing.



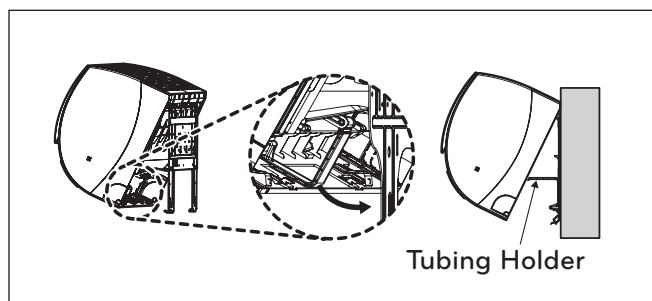
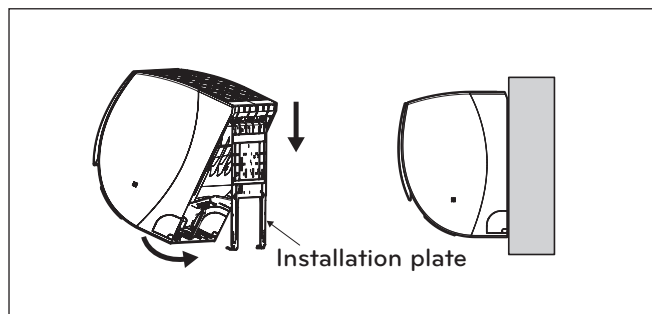
⚠ CAUTION

Installation Information. For right piping. Follow the instruction above.

Installation of Indoor Unit

1. Hook the indoor unit onto the upper portion of the installation plate.(engage the three hooks at the top of the indoor unit with the upper edge of the installation plate) Ensure that the hooks are properly seated on the installation plate by moving it left and right
2. Unlock the tubing holder from the chassis and mount between the chassis and installation plate in order to separate the bottom side of the indoor unit from the wall.

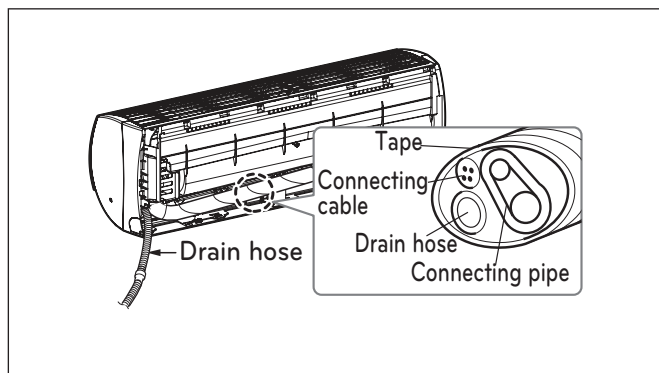
* The feature can be changed according to type of model.



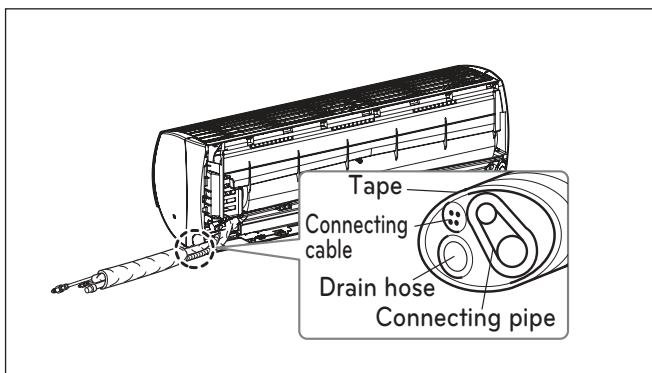
Piping

1. Insert the connecting cable through the bottom side of indoor unit and connect the cable (You can see detail contents in Connecting the cables section)

<Left side piping>



<Right side piping>

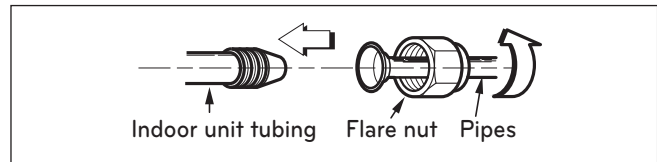


2. Secure the cable onto the control board with the cable retainer.
3. Tape the tubing pipe, drain hose and the connection cable. Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause overflow from the drain pan through the inside of the unit.

* The feature can be changed according to type of model.

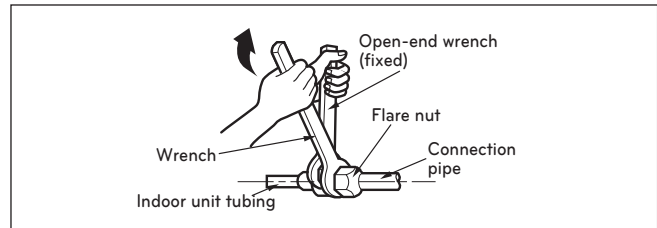
Connecting the installation pipe and drain hose to the indoor unit.

1. Align the center of the pipes and sufficiently tighten the flare nut by hand

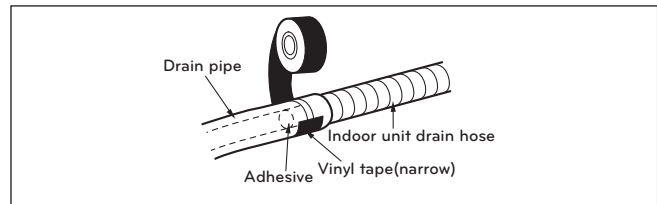


2. Tighten the flare nut with a wrench

Outside Diameter		Torque	
mm	inch	kgf·cm	N·m
Ø6.35	1/4	180~250	17.6~24.5
Ø9.52	3/8	340~420	33.3~41.2
Ø12.7	1/2	550~660	53.9~64.7
Ø15.88	5/8	630~820	61.7~80.4

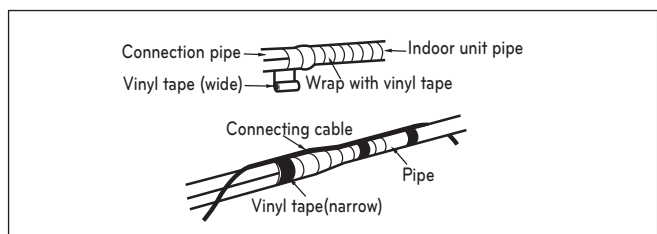
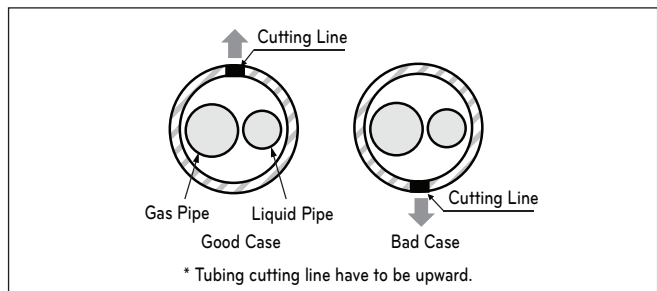
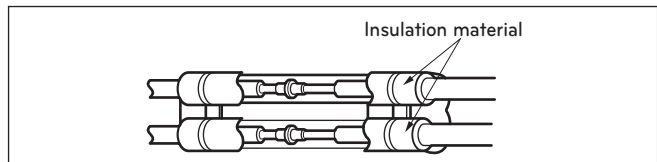


3. When needed to extend the drain hose of indoor unit, assembly the drain pipe as shown on the drawing

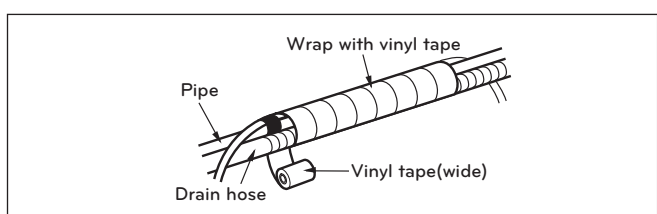


Wrap the insulation material around the connecting portion.

1. Overlap the connection pipe insulation material and the indoor unit pipe insulation material. Bind them together with vinyl tape so that there may be no gap.
2. Set the tubing cutting line upward.
Wrap the area which accommodates the rear piping housing section with vinyl tape.

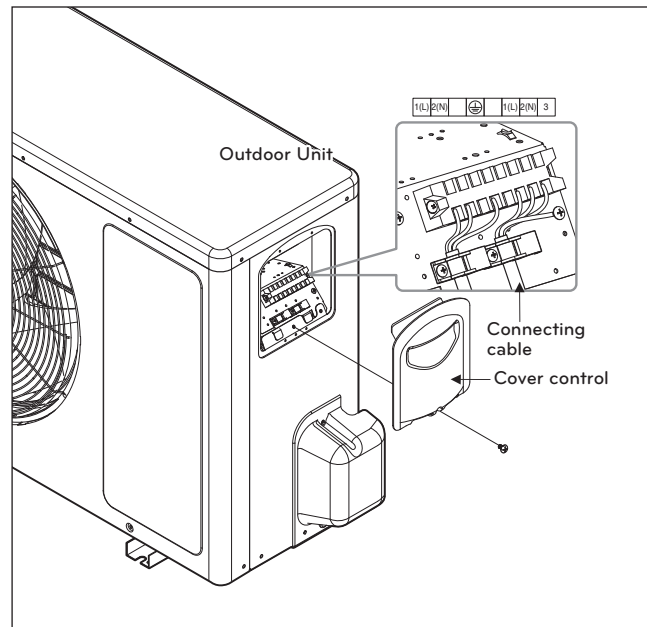


3. Bundle the piping and drain hose together by wrapping them with vinyl tape sufficient enough to cover where they fit into the rear piping housing section.

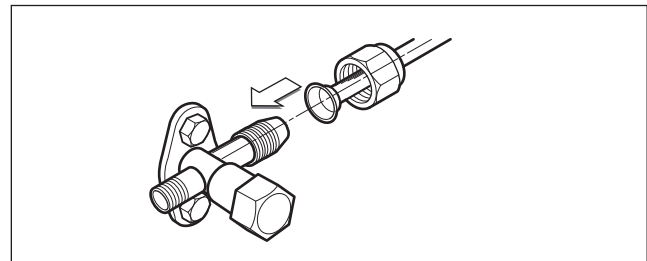


Outdoor unit

1. Remove the tubing cover from the unit by loosening the screw.

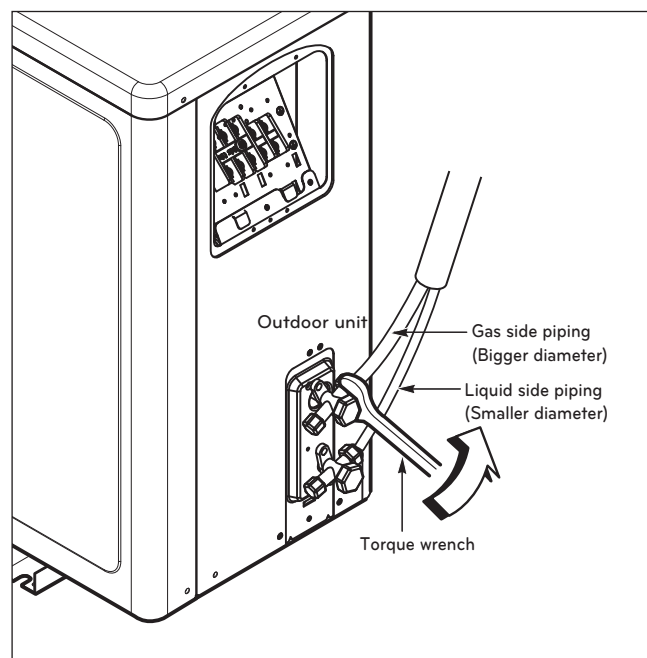


2. Align the center of the pipings and sufficiently tighten the flare nut by hand.



3. Finally, tighten the flare nut with torque wrench until the wrench clicks.
 - When tightening the flare nut with torque wrench, ensure the direction for tightening follows the arrow on the wrench.

Outside Diameter		Torque	
mm	inch	kgf·cm	N·m
Ø6.35	1/4	180~250	17.6~24.5
Ø9.52	3/8	340~420	33.3~41.2
Ø12.7	1/2	550~660	53.9~64.7
Ø15.88	5/8	630~820	61.7~80.4

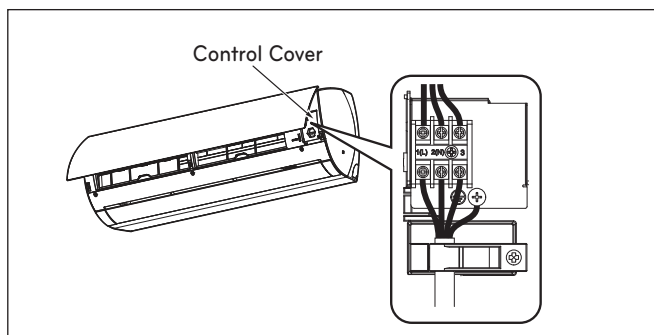


Connecting the Cables

Indoor

Connect the cable to the indoor unit by connecting the wires to the terminals on the control board individually according to the outdoor unit connection. (Ensure that the color of the wires of the outdoor unit and the terminal No. are the same as those of the indoor unit.)

1. Insert the connecting cable through the bottom side of indoor unit and connect the cable (You can see detail contents in Connecting the cables section)
2. Secure the cable onto the control board with the cable retainer.
3. Tape the tubing pipe, drain hose and the connection cable. Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause overflow from the drain pan through the inside of the unit.



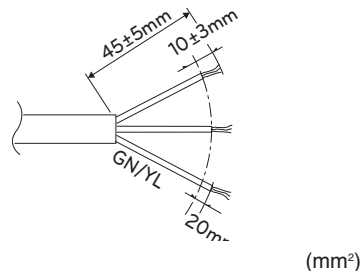
⚠ CAUTION

- The circuit diagram is a subject to change without notice.
- The earth wire should be longer than the common wires.
- When installing, refer to the circuit diagram on the chassis cover.
- Connect the wires firmly so that they may not be pulled out easily.
- Connect the wires according to color codes, referring to the wiring diagram.

⚠ CAUTION

The power cord connected to unit should be selected according to the following national wiring regulations.

The supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord.
(code designation 60245 IEC 57, H05RN-F)

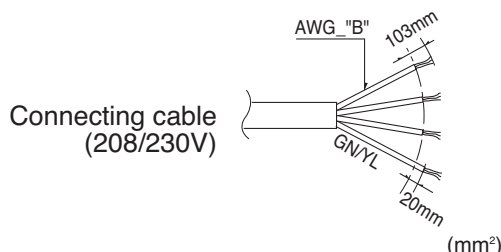


NOMINAL CROSS - SECTIONAL AREA	Grade
	6.8kW
	2.5

The power connecting cable with indoor and outdoor unit should be selected according to the following national wiring regulations.

The supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord.

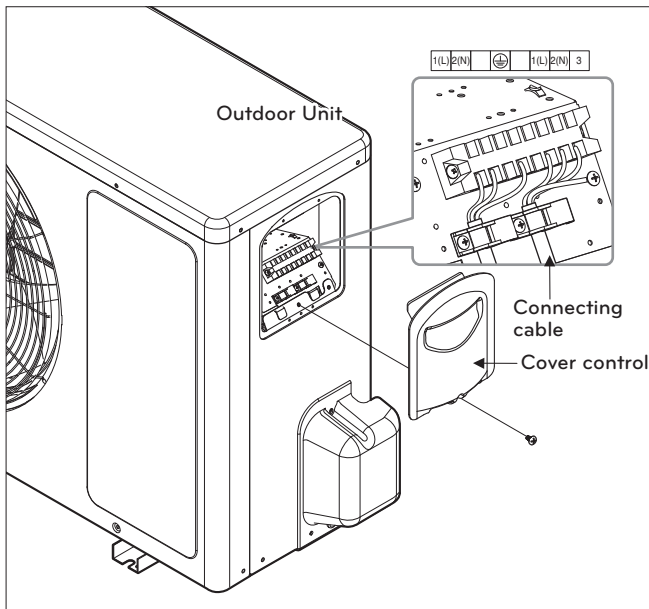
(code designation 60245 IEC 57, H05RN-F)



NOMINAL CROSS - SECTIONAL AREA	Grade
	6.8kW
	1.0

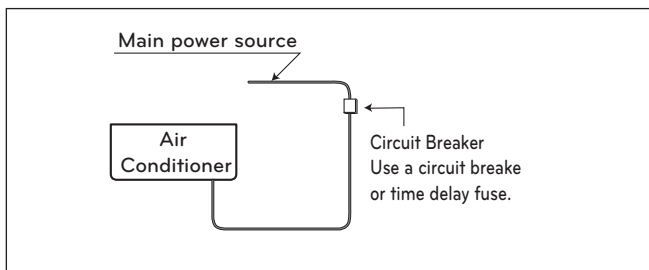
- Connect the wires to the terminals on the control board individually.
- Secure the cable onto the control board with the cord clamp.
- Use a recognized circuit breaker between the power source and the unit.
A disconnecting device to adequately disconnect all supply lines must be fitted.

Circuit Breaker(A)	Grade
	6.8kW
	25



⚠ CAUTION

Provide the circuit breaker between power source and the unit as shown by



⚠ CAUTION

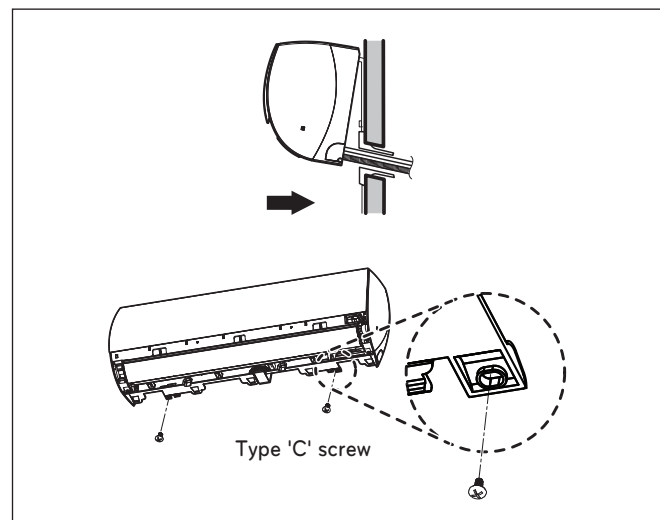
According to the confirmation of the above conditions, prepare the wiring as follows.

1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, be guided by the circuit diagram posted on the inside of control cover.
2. The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could cause burn-out of the wires.)
3. Specification of power source.
4. Confirm that electrical capacity is sufficient.
5. See that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.

6. Confirm that the cable thickness is as specified in the power source specification. (Particularly note the relation between cable length and thickness.)
7. Always install an earth leakage circuit breaker in a wet or moist area.
8. The following would be caused by voltage drop.
 - Vibration of a magnetic switch, which will damage the contact point, fuse breaking, disturbance of the normal function of the overload.
9. The means for disconnection from a power supply shall be incorporated in the fixed wiring and have an air gap contact separation of at least 3mm in each active(phase) conductors.
10. Open the terminal cover block before connecting the indoor side wire.

Finishing the indoor unit installation

1. Mount the tubing holder in the original position.
2. Ensure that the hooks are properly seated on the installation plate by moving it left and right.
3. Press the lower left and right sides of the unit against the installation plate until the hooks engage into their slots (clicking sound).
4. Finish the assembly by screwing the unit to the installation plate by using two pieces of type "C" screws. And assemble a chassis cover.

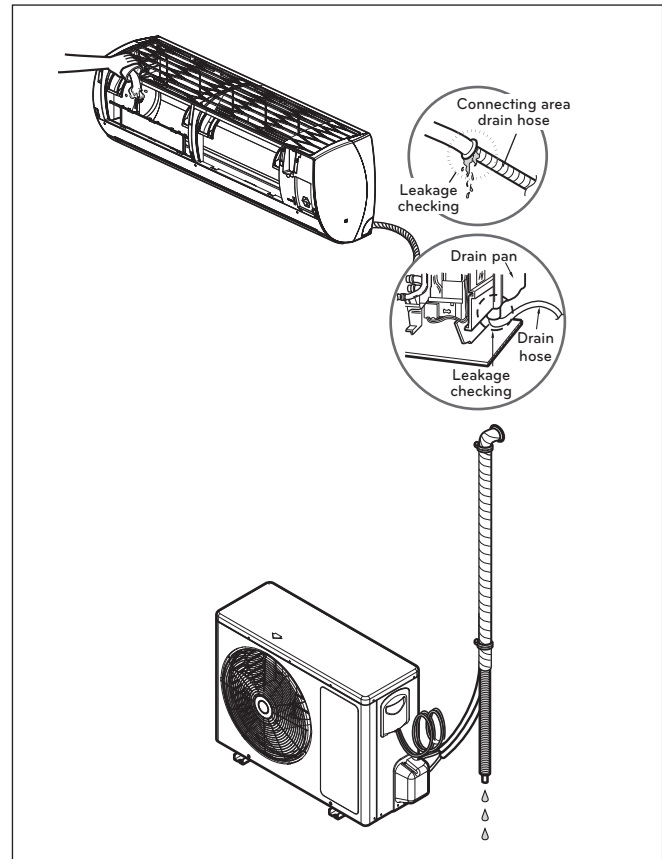


Checking the Drainage

To check the drainage.

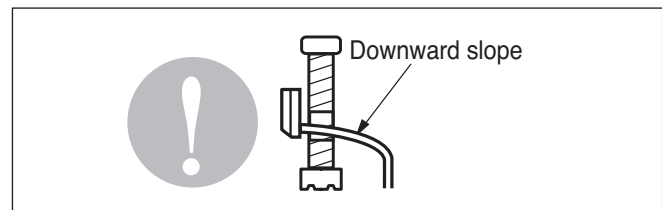
1. Pour a glass of water on the evaporator.
2. Ensure the water flows through the drain hose of the indoor unit without any leakage and goes out the drain exit.

*The feature can be changed according to type of model.

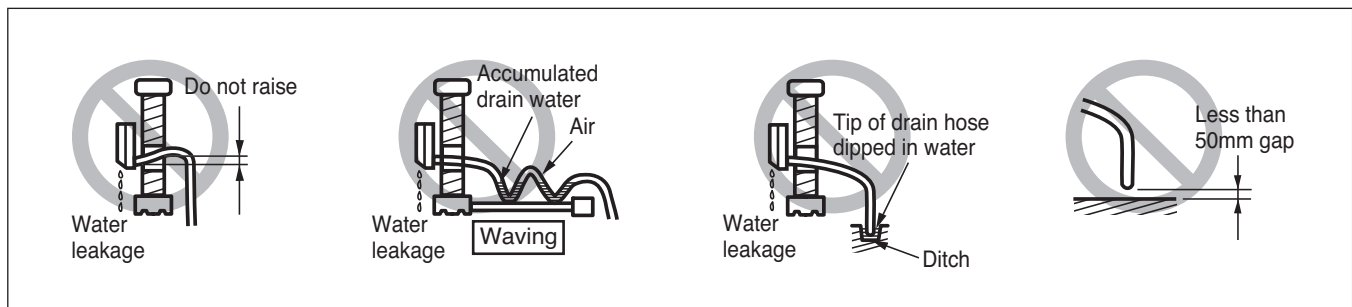


Drain piping

1. The drain hose should point downward for easy drain flow.



2. Do not make drain piping like the following.

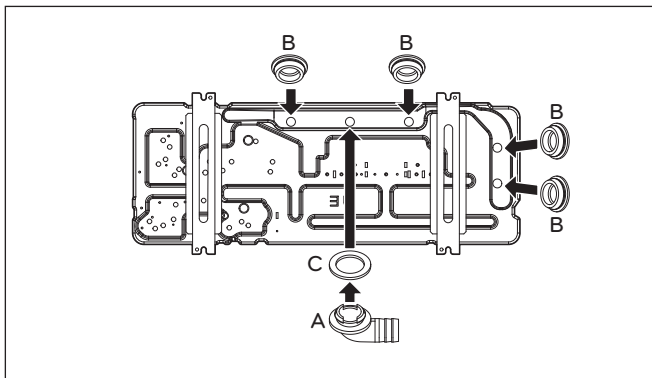


* The feature can be changed according to type of model.

Installing drain piping of the outdoor unit

Depending on installation site, it may be required to install drain plug for drainage (Supplied with the unit). In cold areas, do not use a drain hose with the outdoor unit. Otherwise, drain water may freeze, impairing the heating performance.

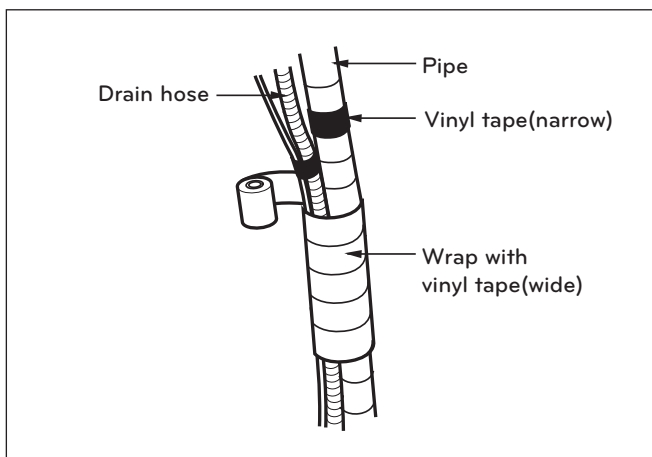
- See the figure below for installation of the drain plug.
 - Drain nipple
 - Drain cap
 - Drain washer
- Connect a field supplied vinyl hose to the drain nipple (A). If the hose is too long and hangs down, fix it carefully to prevent kinks.



Forming the Piping

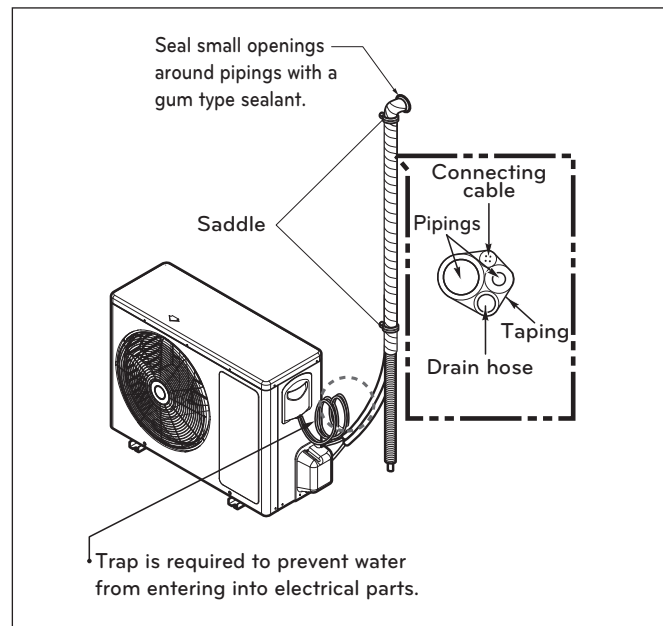
Form the piping by wrapping the connecting portion of the indoor unit with insulation material and secure it with two kinds of vinyl tapes.

- If you want to connect an additional drain hose, the end of the drain outlet should be routed above the ground. Secure the drain hose appropriately.



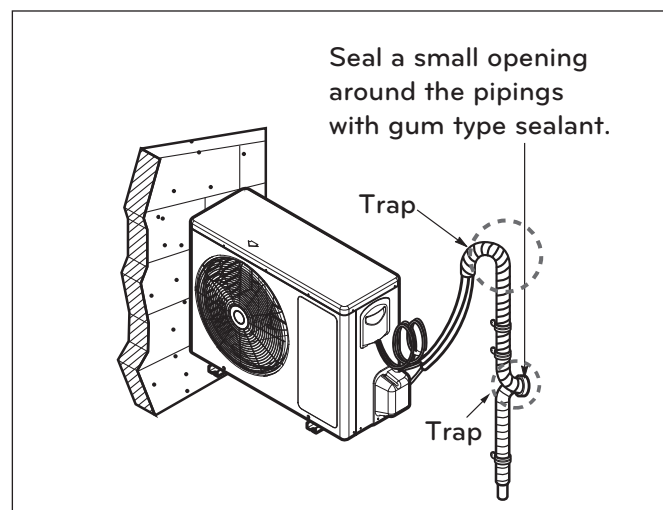
In cases where the outdoor unit is installed below the indoor unit perform the following.

- Tape the piping, drain hose and connecting cable from down to up.
- Secure the tapped piping along the exterior wall using saddle or equivalent.



In cases where the Outdoor unit is installed above the Indoor unit perform the following.

- Tape the piping and connecting cable from down to up.
 - Secure the taped piping along the exterior wall. Form a trap to prevent water entering the room.
 - Fix the piping onto the wall using saddle or equivalent.
- *The feature can be changed according to type of model.



Air Purging

The air and moisture remaining in the refrigerant system have undesirable effects as indicated below.

1. Pressure in the system rises.
2. Operating current rises.
3. Cooling(or heating) efficiency drops.
4. Moisture in the refrigerant circuit may freeze and block capillary tubing.
5. Water may lead to corrosion of parts in the refrigeration system.

Therefore, after evacuating the system, take a leak test for the piping and tubing between the indoor and outdoor unit.

Air purging with vacuum pump

1. Preparation

- Check that each tube(both liquid and gas side tubes) between the indoor and outdoor units have been properly connected and all wiring for the test run has been completed. Remove the service valve caps from both the gas and the liquid side on the outdoor unit. Note that both the liquid and the gas side service valves on the outdoor unit are kept closed at this stage.

2. Leak test

- Connect the manifold valve(with pressure gauges) and dry nitrogen gas cylinder to this service port with charge hoses.

⚠ CAUTION

Be sure to use a manifold valve for air purging. If it is not available, use a stop valve for this purpose. The knob of the 3-way valve must always be kept close.

- Pressurize the system to maximum 17.6kg/cm²G (R-22 model) or 28.1kg/cm²G (R-410A model) with dry nitrogen gas and close the cylinder valve when the gauge reading reaches 17.6kg/cm²G (R-22 model) or 28.1kg/cm²G (R-410A model). Next step is leak test with liquid soap.

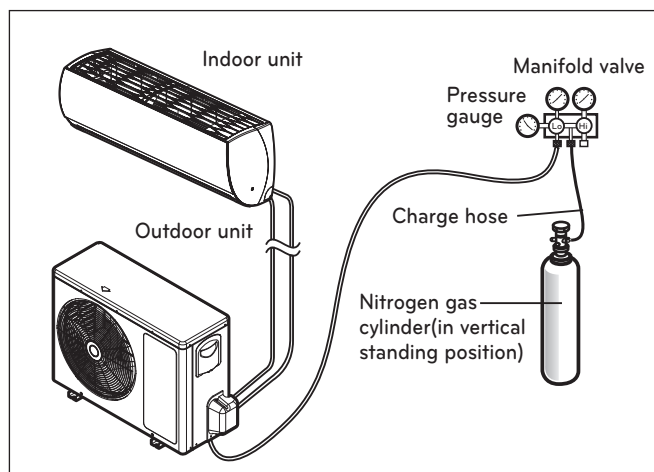
⚠ CAUTION

To avoid nitrogen entering the refrigerant system in a liquid state, the top of the cylinder must be higher than its bottom when you pressurize the system. Usually, the cylinder is used in a vertical standing position.

⚠ CAUTION

⚠ There is a risk of fire and explosion. Inert gas (nitrogen) should be used when you check plumbing leaks, cleaning or repairs of pipes etc. If you are using combustible gases including oxygen, product may have the risk of fires and explosions.

- Do a leak test of all joints of the tubing(both indoor and outdoor) and both gas and liquid side service valves. Bubbles indicate a leak. Be sure to wipe off the soap with a clean cloth.
- After the system is found to be free of leaks, relieve the nitrogen pressure by loosening the charge hose connector at the nitrogen cylinder. When the system pressure is reduced to normal, disconnect the hose from the cylinder.



Soap water method

1. Remove the caps from the 2-way and 3-way valves.
2. Remove the service-port cap from the 3-way valve.
3. Apply a soap water or a liquid neutral detergent on the indoor unit connection or outdoor unit connections by a soft brush to check for leakage of the connecting points of the piping.
4. If bubbles come out, the pipes have leakage

Evacuation

1. Connect the charge hose end described in the preceding steps to the vacuum pump to evacuate the tubing and indoor unit. Confirm the "Lo" knob of the pressure Gauge is open. Then, run the vacuum pump. The operation time for evacuation varies with tubing length and capacity of the pump. The following table shows the time required for evacuation.

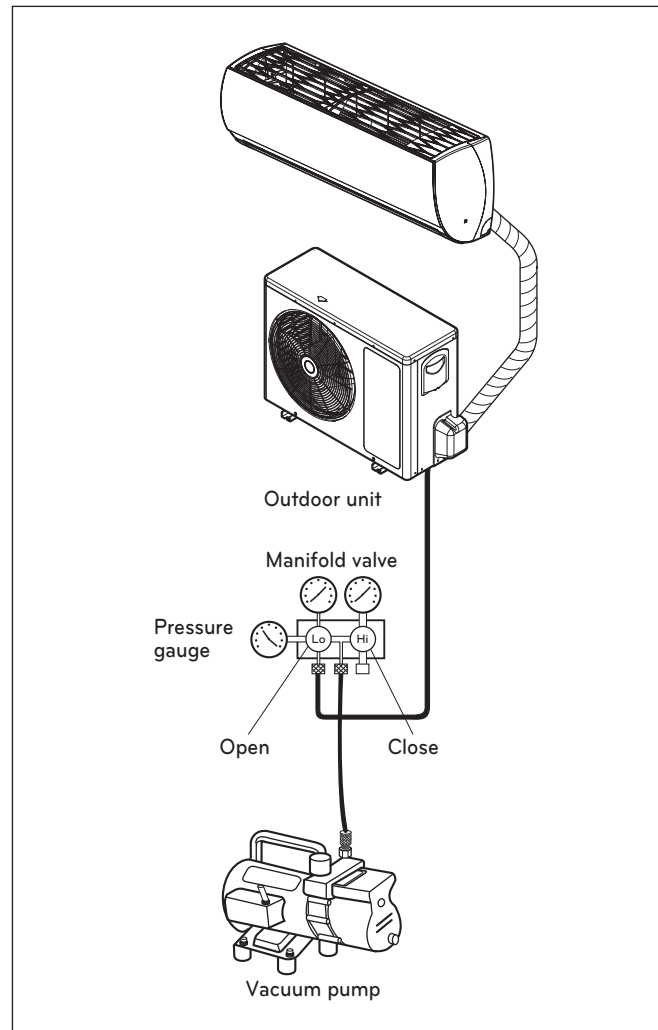
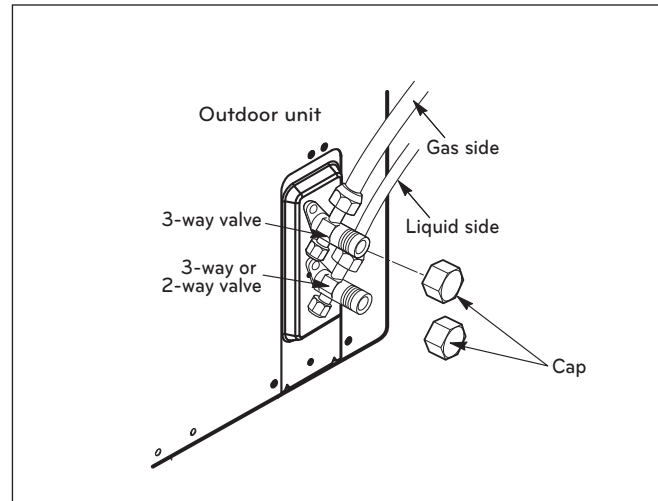
* The feature can be changed according to type of model.

Required time for evacuation when 30 gal/h vacuum pump is used	
If tubing length is less than 10m (33 ft)	If tubing length is longer than 10m (33 ft)
10 min. or more	15 min. or more

2. When the desired vacuum is reached, close the knob of the 3-way valve and stop the vacuum pump.

Finishing the Job

1. With a service valve wrench, turn the valve of liquid side counter-clockwise to fully open the valve
2. Turn the valve of gas side counter clockwise to fully open the valve
3. Loosen the charge hose connected to the gas side service port slightly to release the pressure, then remove the hose.
4. Replace the flare nut and its bonnet on the gas side service port and fasten the flare nut securely with an adjustable wrench. This process is very important to prevent leakage from the system
5. Replace the valve caps at both gas and liquid side service valves and fasten them tight. This completes air purging with a vacuum pump.
6. Replace the pipe cover to the outdoor unit by one screw. Now the air conditioner is ready for test run.



Test Running

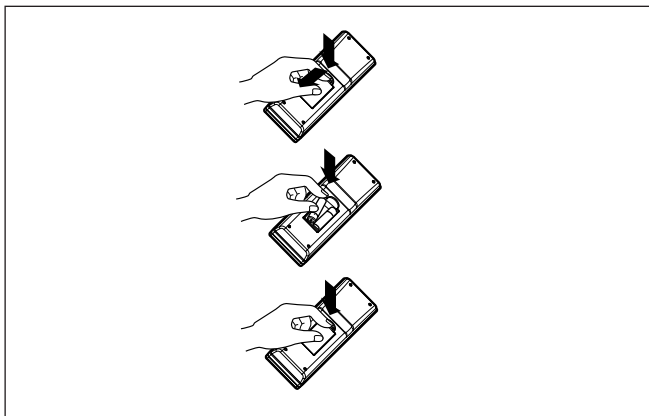
1. Check that all tubing and wiring are properly connected.
2. Check that the gas and liquid side service valves are fully open.

Prepare remote controller

1. Remove the battery cover by pulling it according to the arrow direction.
2. Insert new batteries making sure that the (+) and (–) of battery are installed correctly.
3. Reattach the cover by pushing it back into position.

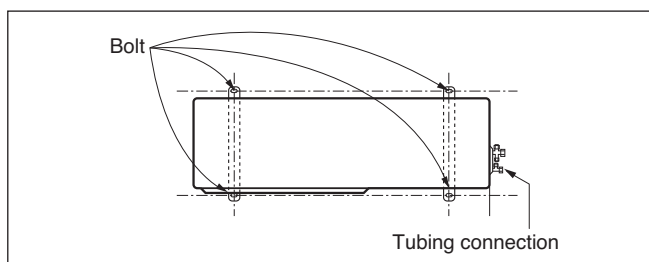
NOTICE

- Use 2 AAA(1.5volt) batteries. Do not use rechargeable batteries.
- Remove the batteries from the remote controller if the system is not used for a long time.



Settlement of outdoor unit

1. Fix the outdoor unit with a bolt and nut(ø10mm) tightly and horizontally on a concrete or rigid mount.
2. When installing on the wall, roof or rooftop, anchor the mounting base securely with a nail or wire assuming the influence of wind and earthquake.
3. If the vibration of the unit is transmitted to the pipe, secure the unit with an anti-vibration rubber.



Evaluation of the performance

Operate the unit for 15~20 minutes, then check the system refrigerant charge:

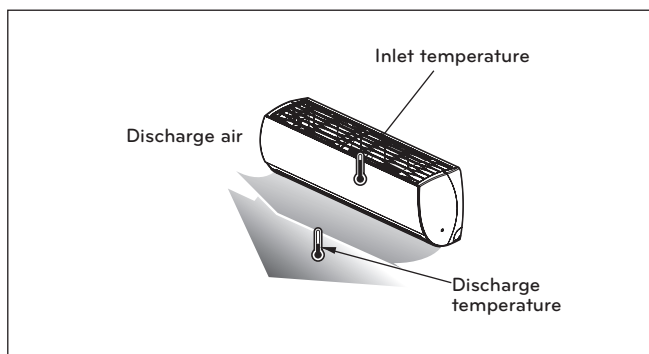
1. Measure the pressure of the gas side service valve.
2. Measure the air temperature from inlet and outlet of air conditioner.
3. Ensure the difference between the inlet and outlet temperature is more than 8°C.
4. For reference; the gas side pressure at optimum condition is shown on table (cooling)

The air conditioner is now ready to use.

Refrigerant	Outside ambient TEMP.	The pressure of the gas side service valve.
R-22	35°C (95°F)	4~5kg/cm ² G (56.8~71.0 P.S.I.G.)
R-410A	35°C (95°F)	8.5~9.5kg/cm ² G (120~135 P.S.I.G.)

NOTICE

If the actual pressure is higher than shown, the system is most likely over-charged, and charge should be removed. If the actual pressure are lower than shown, the system is most likely undercharged, and charge should be added.



Pump Down

This is performed when the unit is relocated or the refrigerant circuit is serviced.

Pump Down means collecting all refrigerant into the outdoor unit without the loss of refrigerant.

⚠ CAUTION

Be sure to perform Pump Down procedure in the cooling mode.

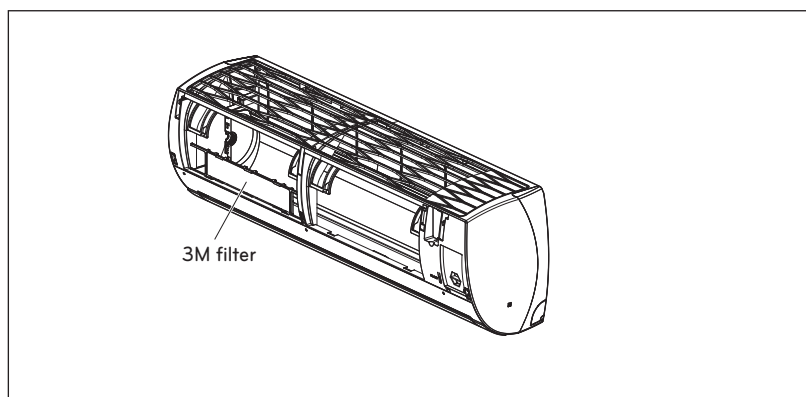
Pump Down Procedure

1. Connect a low-pressure gauge manifold hose to the charge port on the gas side service valve.
2. Open the gas side service valve halfway and purge the air in the manifold hose using the refrigerant.
3. Close the liquid side service valve(all the way).
4. Turn on the units operating switch and start the cooling operation.
5. When the low-pressure gauge reading becomes 1 to 0.5kg/cm² G(14.2 to 7.1 P.S.I.G.), fully close the gas side valve and then quickly turn off the unit. Now Pump Down procedure is completed, and all refrigerant is collected into the outdoor unit.

Mode	Indoor temperature	Outdoor temperature
Cooling	18°C ~ 32°C	-10°C ~ 48°C
Heating	16°C ~ 30°C	-10°C ~ 24°C

Installation of 3M filter

1. Pull out the 3M filter from the separately packed plastic bag.
2. Insert the 3M filter into the case.
3. 3M filter is installed with 3M Mark front



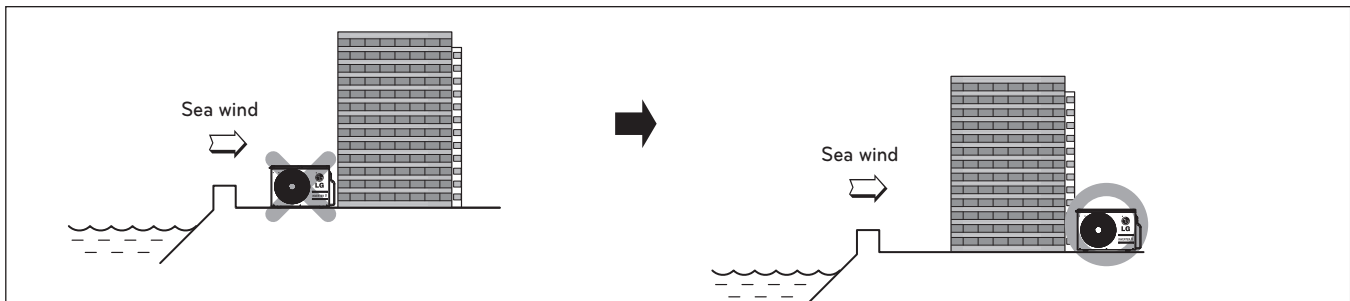
Installation Guide for Areas Exposed to Sea Wind

⚠ CAUTION

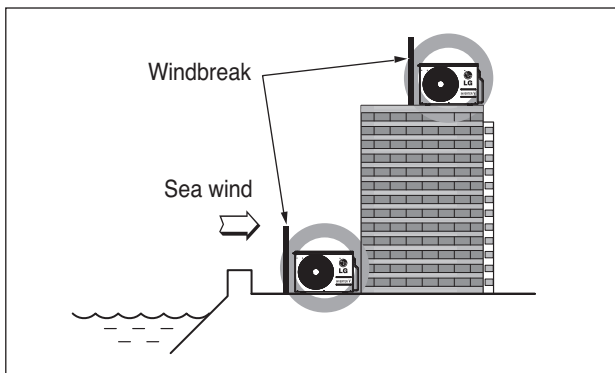
1. Air conditioners should not be installed in areas where corrosive gases, such as acid or alkaline gas, are produced.
2. Do not install the product where it could be exposed to sea wind (salty wind) directly. It can result corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient performance.
3. If outdoor unit is installed close to the seaside, it should avoid direct exposure to the sea wind. Otherwise it needs additional anticorrosion treatment on the heat exchanger.

Selecting the location(Outdoor Unit)

- 1) If the outdoor unit is to be installed close to the seaside, then direct exposure to the sea wind should be avoided. Install the outdoor unit on the opposite side of the sea wind direction.



- 2) In case of installing the outdoor unit on the sea side, setup a windbreak to prevent sea wind.



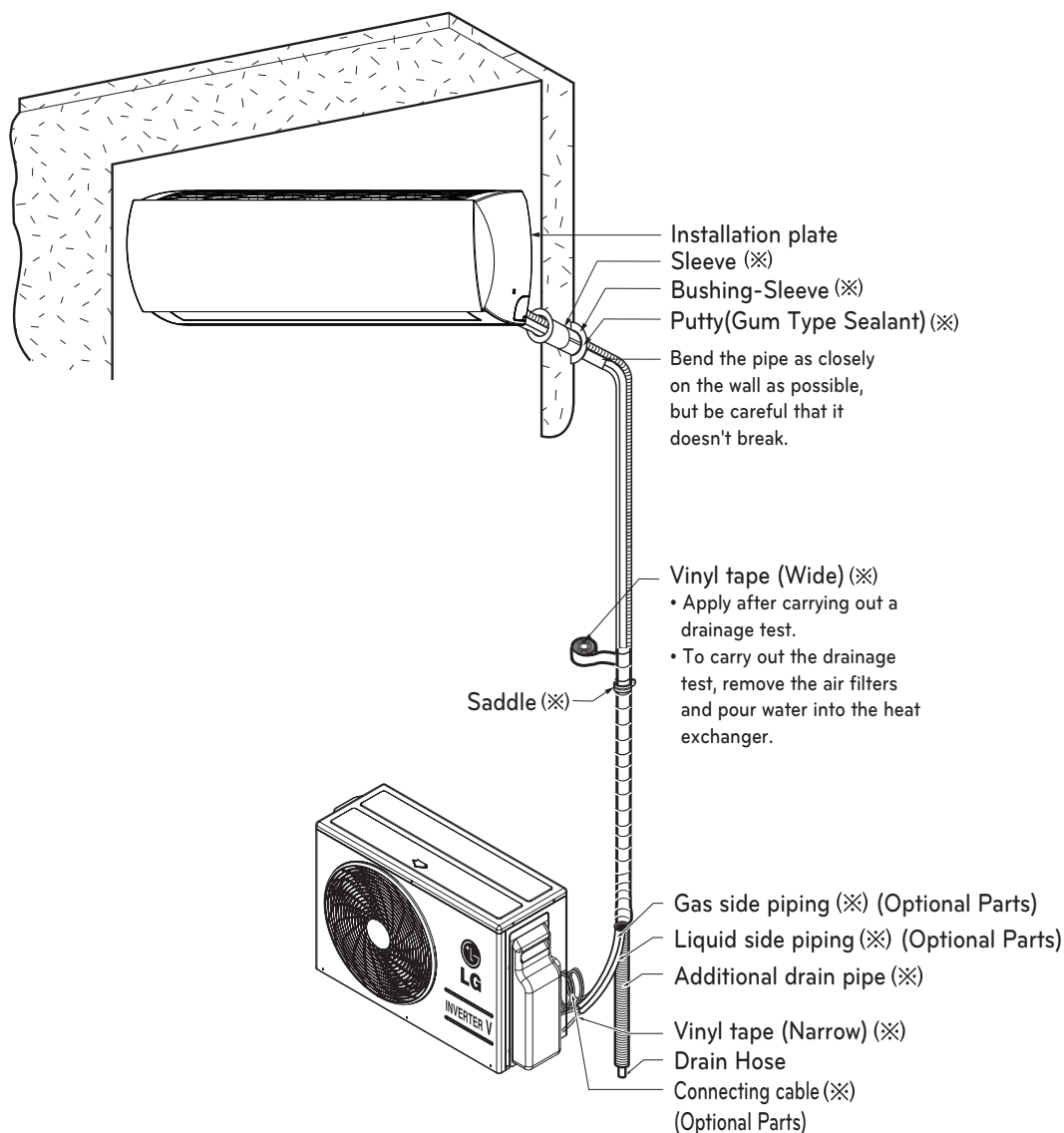
- It should be strong enough like concrete to prevent the sea wind from the sea.
- The height and width should be more than 150% of the outdoor unit.
- Keep more than 70 cm of space between outdoor unit and the windbreak for easy air flow.

- 3) Select a well-drained place.

1. If you can't meet above guide line in the seaside installation, please contact LG Electronics for the additional anticorrosion treatment.
 2. Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchanger by using water
- * Do not use seawater when you clean up the heat exchanger.

13.3 AS-W126MMS3(H12AK)

Installation Map



* The feature can be changed according to type of model.

NOTICE

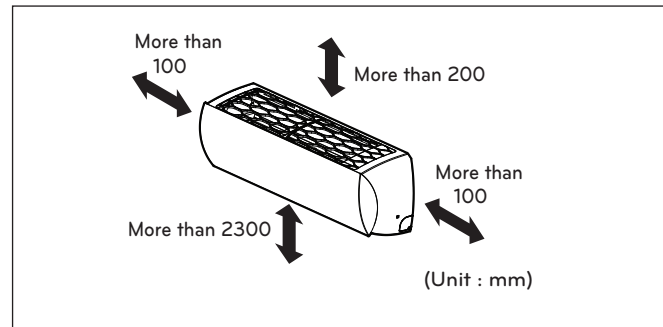
- You should purchase the installation parts.

Select the best Location

Indoor unit

- There should not be any heat or steam near the unit.
- Select a place where there are no obstacles around of the unit.
- Make sure that condensation drainage can be conveniently routed away.
- Do not install near a doorway.
- Ensure that the interval between a wall and the left (or right) of the unit is more than 100mm.
The unit should be installed as high as possible on the wall, allowing a minimum of 200mm from ceiling.
- Use a metal detector to locate studs to prevent unnecessary damage to the wall.

* The feature can be changed according to type of model.

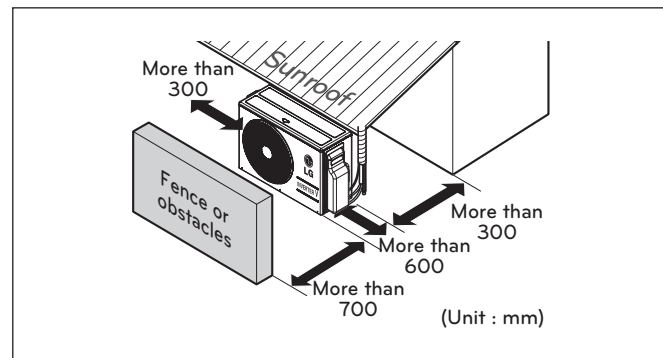


NOTICE

- Install the indoor unit on the wall where the height from the floor is more than 2300mm.

Outdoor unit

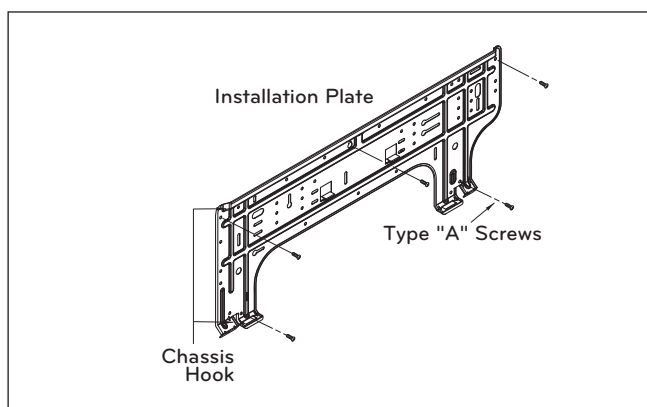
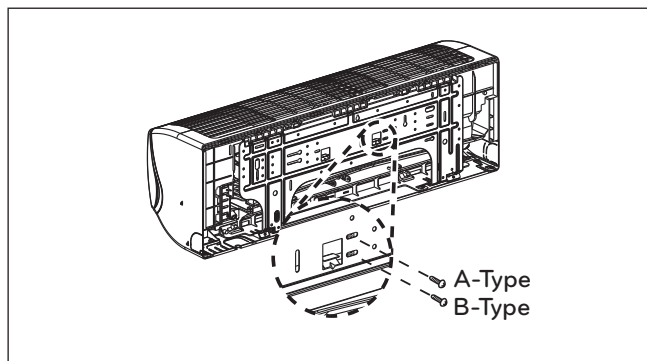
- If an awning is built over the unit to prevent direct sunlight or rain exposure, make sure that heat radiation from the condenser is not restricted.
- Ensure that the space around the back and sides is more than 300mm. The space in front of the unit should be more than 700mm of space.
- Do not place animals and plants in the path of the warm air.
- Take the weight of the air conditioner into account and select a place where noise and vibration are minimum.
- Select a place where the warm air and noise from the air conditioner do not disturb neighbors.



Fixing Installation Plate

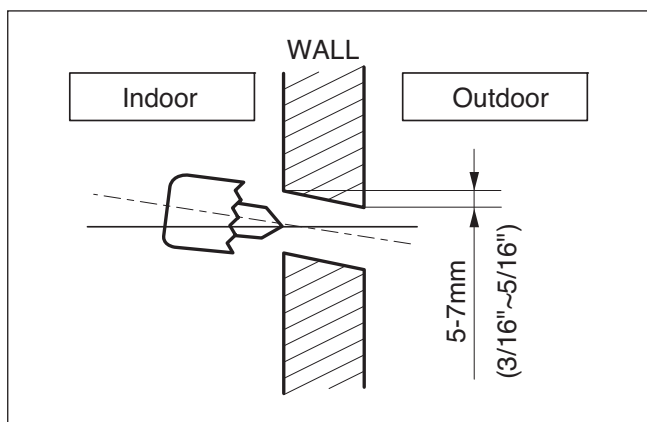
The wall you select should be strong and solid enough to prevent vibration.

1. Before installation, confirm the position of a screw between chassis and Installation plate.
2. Mount the installation plate on the wall with type "A" screws. If mounting the unit on a concrete wall, use anchor bolts.
 - Mount the installation plate horizontally by aligning the centerline using Horizontal meter .
3. Measure the wall and mark the centerline. It is also important to use caution concerning the location of the installation plate. Routing of the wiring to power outlets is through the walls typically. Drilling the hole through the wall for piping connections must be done safely.



Drill a Hole in the Wall

- Drill the piping hole with a $\phi 65\text{mm}$ hole core drill. Drill the piping hole at either the right or the left with the hole slightly slanted to the outdoor side.

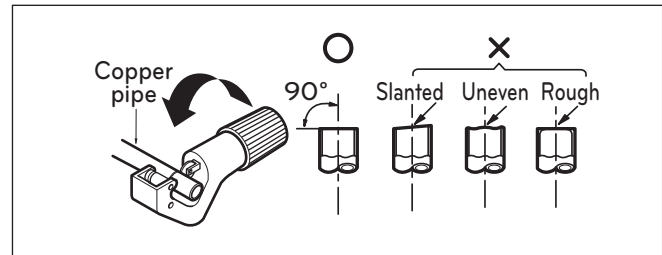


Flaring Work

Main cause for gas leakage is due to defect of flaring work. Carry out correct flaring work in the following procedure.

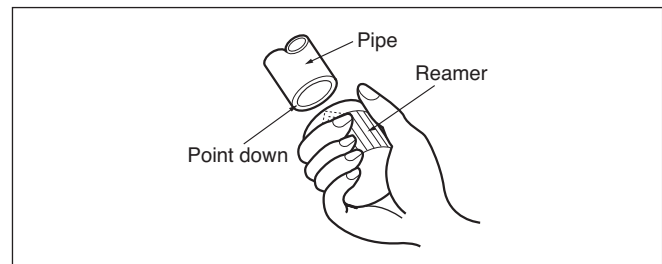
Cut the pipes and the cable

1. Use the piping kit accessory or the pipes purchased locally.
2. Measure the distance between the indoor and the outdoor unit.
3. Cut the pipes a little longer than measured distance.
4. Cut the cable 1.5m longer than the pipe length.



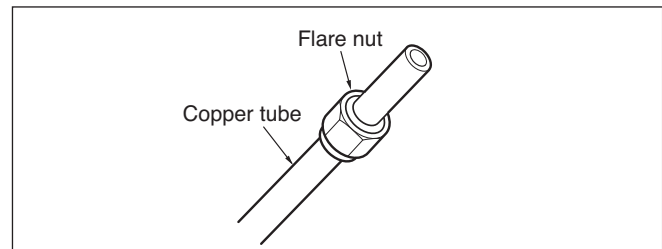
Burrs removal

1. Completely remove all burrs from the cut cross section of pipe/tube.
2. While removing burrs put the end of the copper tube/pipe in a downward direction while removing burrs location is also changed in order to avoid dropping burrs into the tubing.



Putting nut on

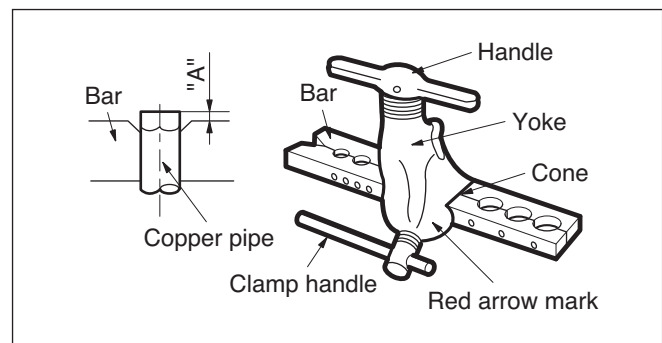
- Remove flare nuts attached to indoor and outdoor unit, then put them on pipe/tube having completed burr removal.
(not possible to put them on after finishing flare work)



Flaring work

1. Firmly hold copper pipe in a bar with the dimension shown in below table below.

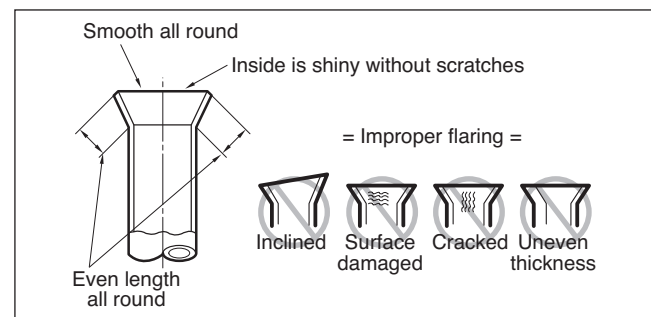
Outside diameter		A	Thickness
mm	inch	mm	mm
Ø6.35	1/4"	1.1~1.3	0.7
Ø9.52	3/8"	1.5~1.7	0.8
Ø12.7	1/2"	1.6~1.8	0.8
Ø15.88	5/8"	1.6~1.8	1.0



2. Carry out flaring work with the flaring tool.

Check

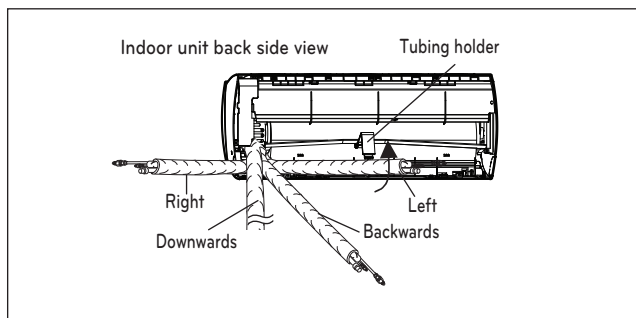
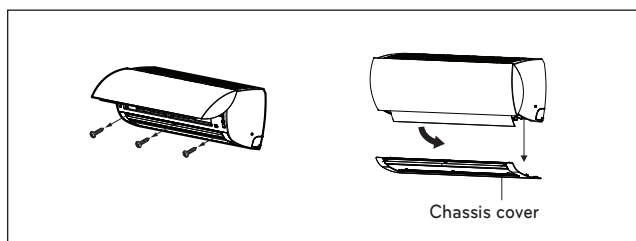
1. Compare the flared work with the figure by.
2. If a flared section is defective, cut it off and do flaring work again.



Connecting the Piping

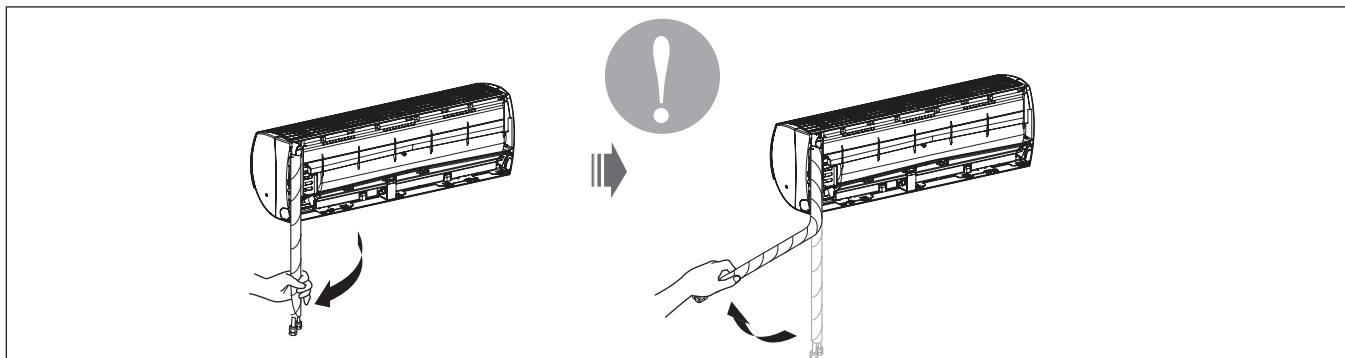
Indoor unit

1. Open the panel of the indoor unit.
2. Remove the chassis cover from the unit by loosening 3 screws.
3. Pull back the tubing holder.
4. Remove the pipe port cover and position the piping.



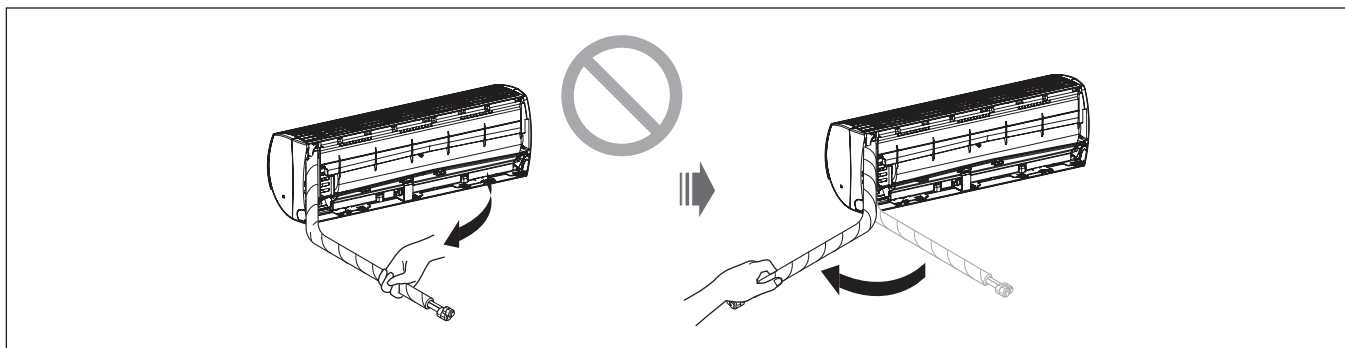
Good case

- Press on the tubing cover and unfold the tubing to downward slowly. And then bend to the left side slowly.



Bad case

- Following bending case from right to left directly may cause damage to the tubing.



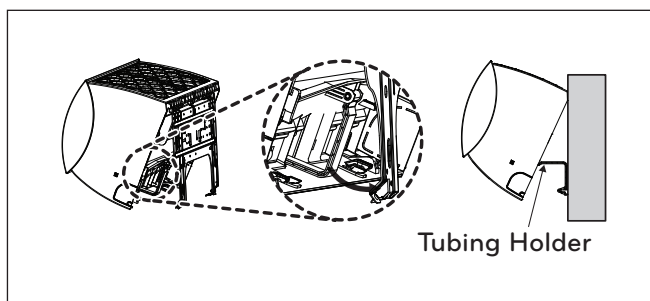
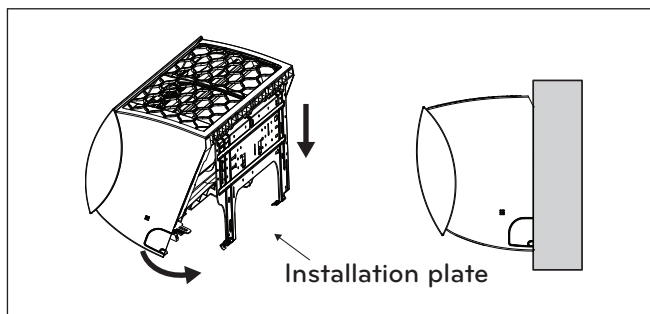
⚠ CAUTION

Installation Information. For right piping. Follow the instruction above.

Installation of Indoor Unit

1. Hook the indoor unit onto the upper portion of the installation plate. (engage the three hooks at the top of the indoor unit with the upper edge of the installation plate) Ensure that the hooks are properly seated on the installation plate by moving it left and right
2. Unlock the tubing holder from the chassis and mount between the chassis and installation plate in order to separate the bottom side of the indoor unit from the wall.

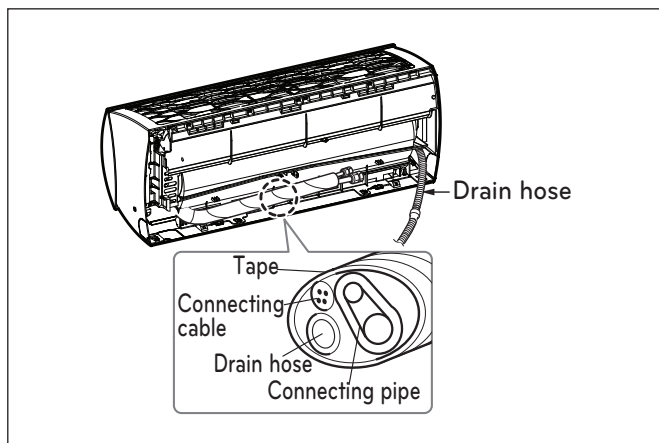
* The feature can be changed according to type of model.



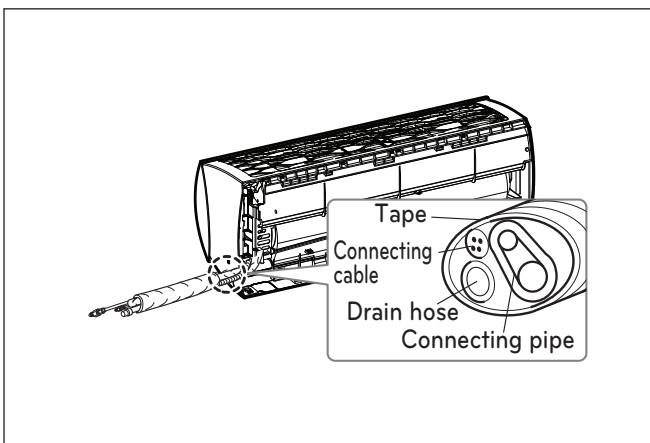
Piping

1. Insert the connecting cable through the bottom side of indoor unit and connect the cable (You can see detail contents in Connecting the cables section)

<Left side piping>



<Right side piping>

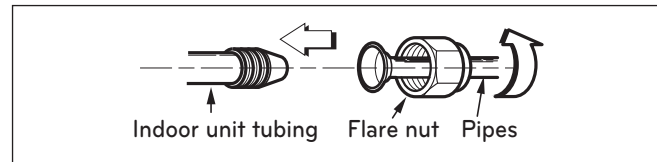


2. Secure the cable onto the control board with the cable retainer.
3. Tape the tubing pipe, drain hose and the connection cable. Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause overflow from the drain pan through the inside of the unit.

* The feature can be changed according to type of model.

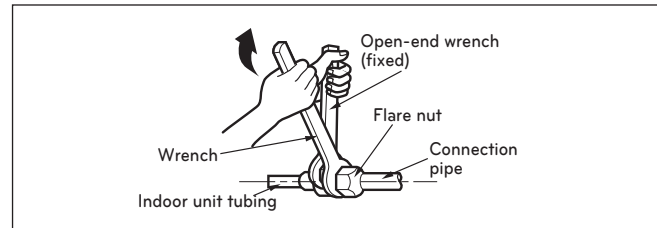
Connecting the installation pipe and drain hose to the indoor unit.

1. Align the center of the pipes and sufficiently tighten the flare nut by hand

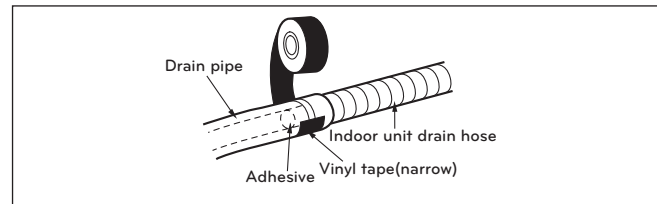


2. Tighten the flare nut with a wrench

Outside Diameter		Torque	
mm	inch	kgf·cm	N·m
Ø6.35	1/4	180~250	17.6~24.5
Ø9.52	3/8	340~420	33.3~41.2
Ø12.7	1/2	550~660	53.9~64.7
Ø15.88	5/8	630~820	61.7~80.4

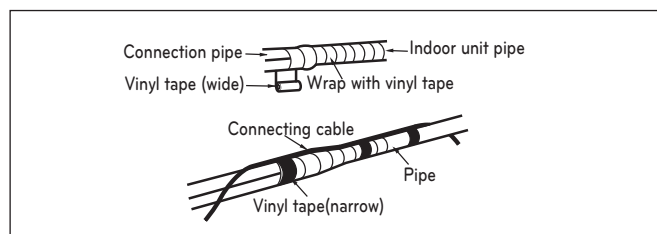
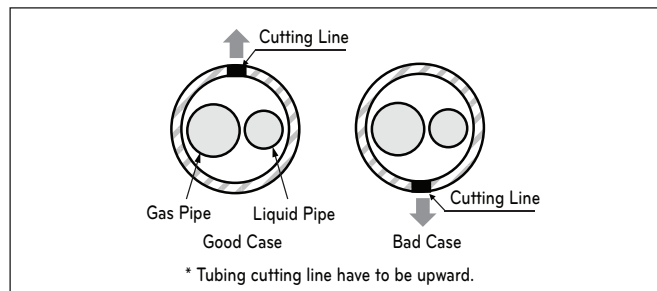
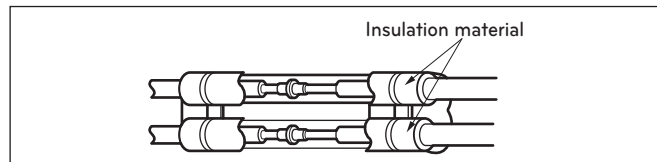


3. When needed to extend the drain hose of indoor unit, assembly the drain pipe as shown on the drawing

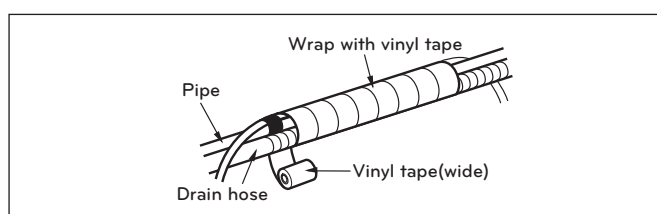


Wrap the insulation material around the connecting portion.

1. Overlap the connection pipe insulation material and the indoor unit pipe insulation material. Bind them together with vinyl tape so that there may be no gap.
2. Set the tubing cutting line upward.
Wrap the area which accommodates the rear piping housing section with vinyl tape.

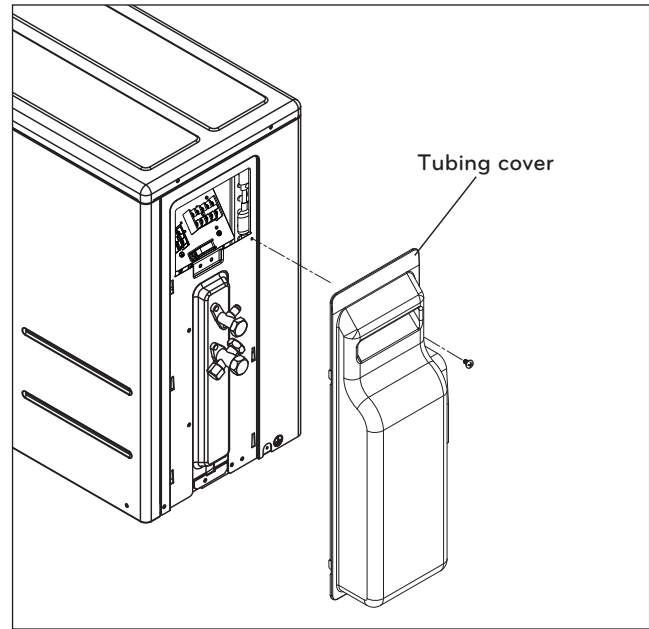


3. Bundle the piping and drain hose together by wrapping them with vinyl tape sufficient enough to cover where they fit into the rear piping housing section.

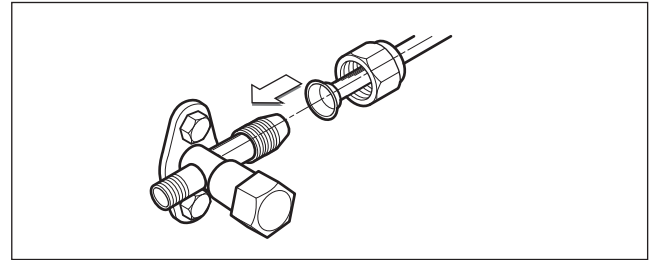


Outdoor unit

1. Remove the tubing cover from the unit by loosening the screw.

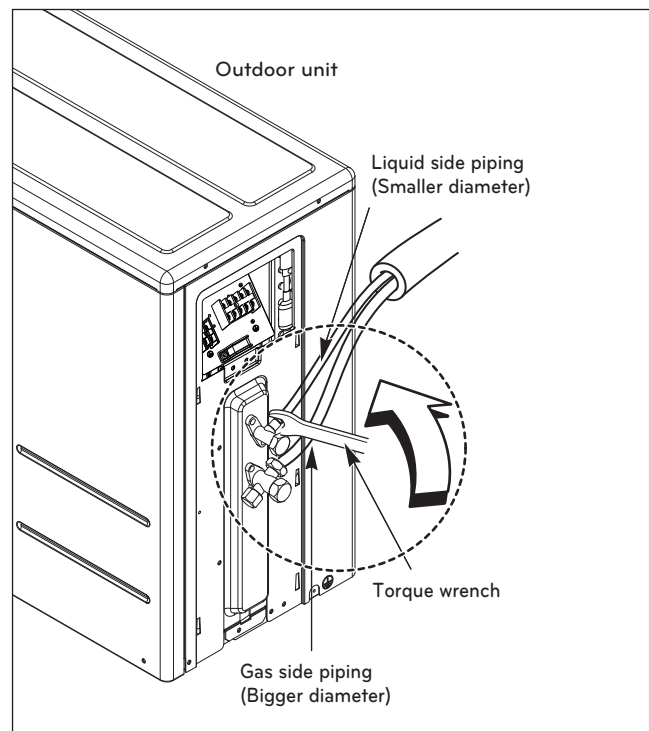


2. Align the center of the pipings and sufficiently tighten the flare nut by hand.



3. Finally, tighten the flare nut with torque wrench until the wrench clicks.
 - When tightening the flare nut with torque wrench, ensure the direction for tightening follows the arrow on the wrench.

Outside Diameter		Torque	
mm	inch	kgf·cm	N·m
Ø6.35	1/4	180~250	17.6~24.5
Ø9.52	3/8	340~420	33.3~41.2
Ø12.7	1/2	550~660	53.9~64.7
Ø15.88	5/8	630~820	61.7~80.4

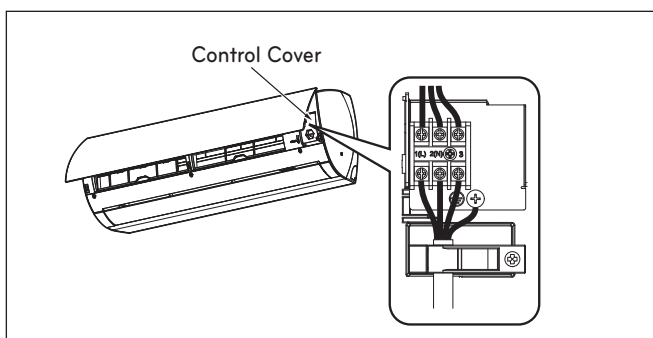


Connecting the Cables

Indoor

Connect the cable to the indoor unit by connecting the wires to the terminals on the control board individually according to the outdoor unit connection. (Ensure that the color of the wires of the outdoor unit and the terminal No. are the same as those of the indoor unit.)

1. Insert the connecting cable through the bottom side of indoor unit and connect the cable.
2. Secure the cable onto the control board with the cable retainer.
3. Lift up the cover of terminal block slightly.
4. Tape the tubing pipe, drain hose and the connection cable. Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause overflow from the drain pan through the inside of the unit.



⚠ CAUTION

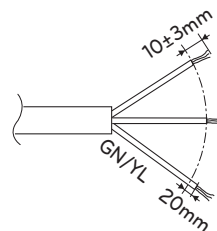
- The circuit diagram is a subject to change without notice.
- The earth wire should be longer than the common wires.
- When installing, refer to the circuit diagram on the chassis cover.
- Connect the wires firmly so that they may not be pulled out easily.
- Connect the wires according to color codes, referring to the wiring diagram.

⚠ CAUTION

The power cord connected to unit should be selected according to the following national wiring regulations.

The supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord.

(code designation 60245 IEC 57, H05RN-F)



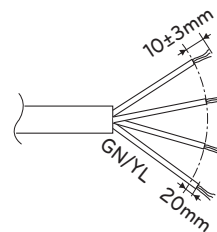
(mm²)

NOMINAL CROSS - SECTIONAL AREA	Grade
	2.5~3.5kW
	1.0

The power connecting cable with indoor and outdoor unit should be selected according to the following national wiring regulations.

The supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord.

(code designation 60245 IEC 57, H05RN-F)

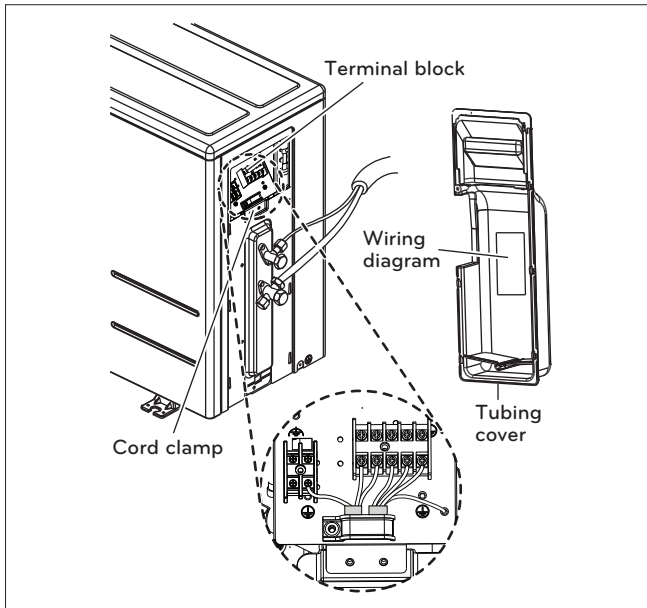


(mm²)

NOMINAL CROSS - SECTIONAL AREA	Grade
	2.5~3.5kW
	1.0

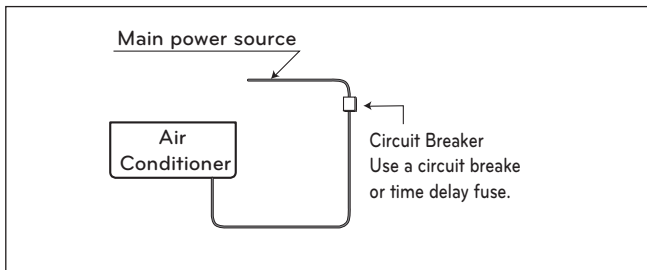
- Connect the wires to the terminals on the control board individually.
 - Secure the cable onto the control board with the cord clamp.
 - Use a recognized circuit breaker between the power source and the unit.
- A disconnecting device to adequately disconnect all supply lines must be fitted.

Circuit Breaker(A)	Grade
	2.5~3.5kW
	15



⚠ CAUTION

Provide the circuit breaker between power source and the unit as shown by



⚠ CAUTION

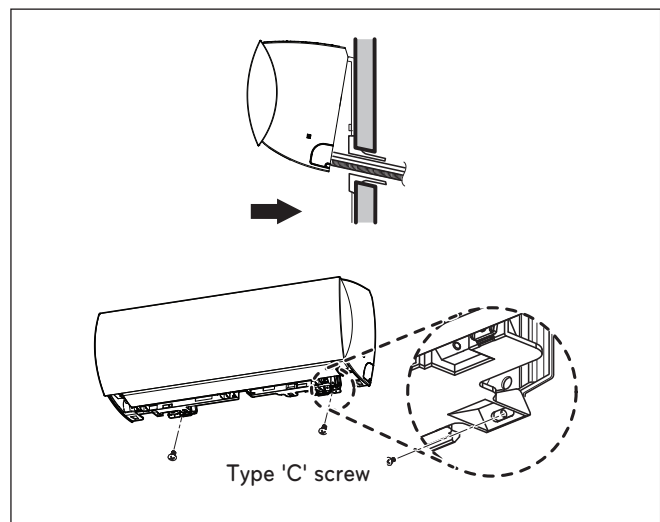
According to the confirmation of the above conditions, prepare the wiring as follows.

1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, be guided by the circuit diagram posted on the inside of control cover.
2. The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could cause burn-out of the wires.)
3. Specification of power source.
4. Confirm that electrical capacity is sufficient.
5. See that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.

6. Confirm that the cable thickness is as specified in the power source specification. (Particularly note the relation between cable length and thickness.)
7. Always install an earth leakage circuit breaker in a wet or moist area.
8. The following would be caused by voltage drop.
 - Vibration of a magnetic switch, which will damage the contact point, fuse breaking, disturbance of the normal function of the overload.
9. The means for disconnection from a power supply shall be incorporated in the fixed wiring and have an air gap contact separation of at least 3mm in each active(phase) conductors.
10. Open the terminal cover block before connecting the indoor side wire.

Finishing the indoor unit installation

1. Mount the tubing holder in the original position.
2. Ensure that the hooks are properly seated on the installation plate by moving it left and right.
3. Press the lower left and right sides of the unit against the installation plate until the hooks engage into their slots (clicking sound).
4. Finish the assembly by screwing the unit to the installation plate by using two pieces of type "C" screws. And assemble a chassis cover.

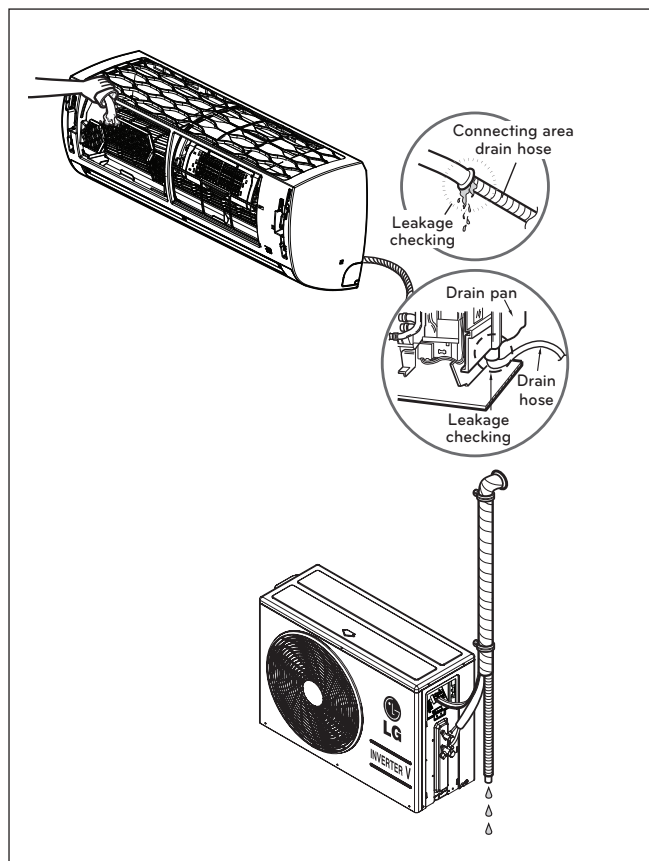


Checking the Drainage

To check the drainage.

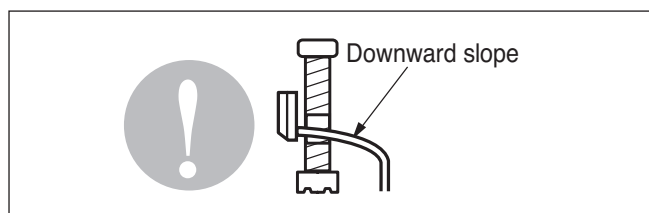
1. Pour a glass of water on the evaporator.
2. Ensure the water flows through the drain hose of the indoor unit without any leakage and goes out the drain exit.

*The feature can be changed according to type of model.

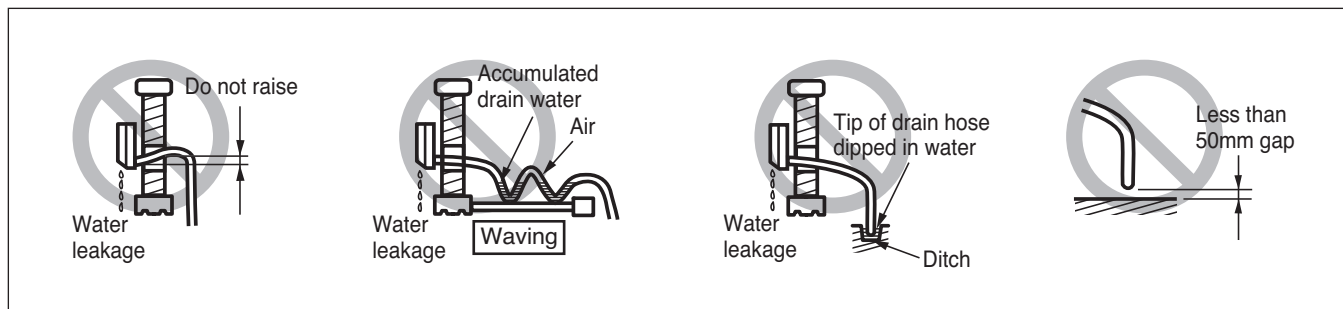


Drain piping

1. The drain hose should point downward for easy drain flow.



2. Do not make drain piping like the following.

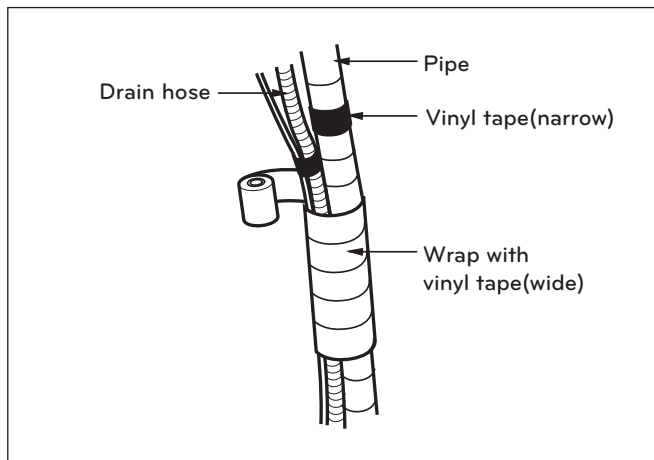


* The feature can be changed according to type of model.

Forming the Piping

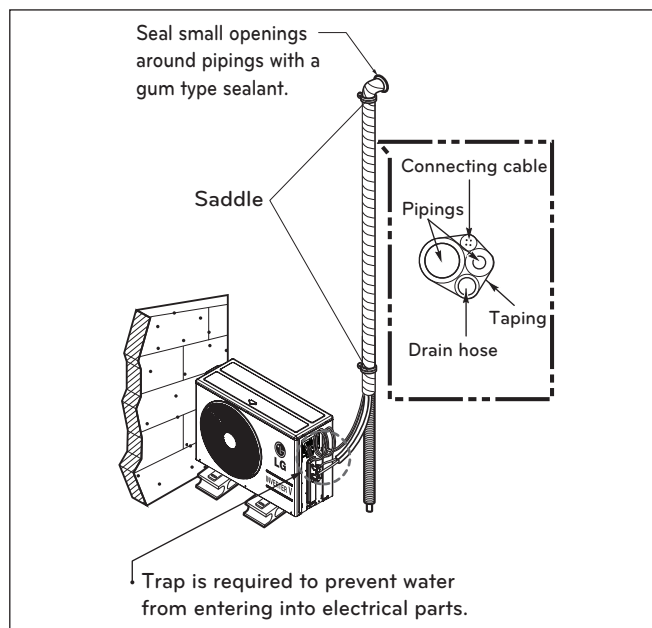
Form the piping by wrapping the connecting portion of the indoor unit with insulation material and secure it with two kinds of vinyl tapes.

- If you want to connect an additional drain hose, the end of the drain outlet should be routed above the ground. Secure the drain hose appropriately.



In cases where the outdoor unit is installed below the indoor unit perform the following.

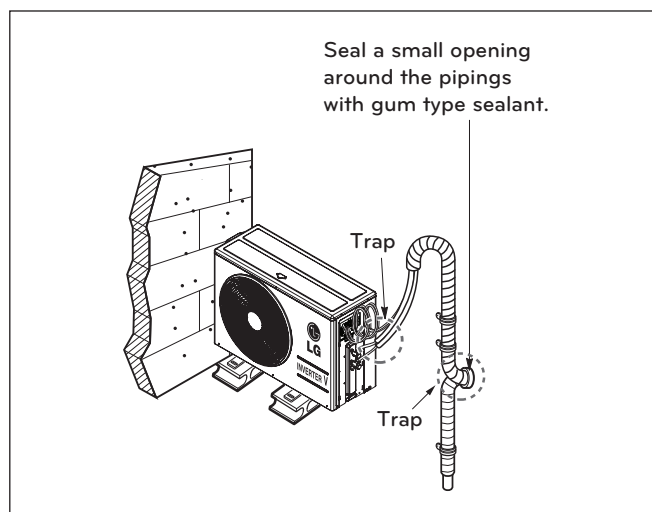
1. Tape the piping, drain hose and connecting cable from down to up.
2. Secure the taped piping along the exterior wall using saddle or equivalent.



In cases where the Outdoor unit is installed above the Indoor unit perform the following.

1. Tape the piping and connecting cable from down to up.
2. Secure the taped piping along the exterior wall. Form a trap to prevent water entering the room.
3. Fix the piping onto the wall using saddle or equivalent.

*The feature can be changed according to type of model.



Air Purging

The air and moisture remaining in the refrigerant system have undesirable effects as indicated below.

1. Pressure in the system rises.
2. Operating current rises.
3. Cooling(or heating) efficiency drops.
4. Moisture in the refrigerant circuit may freeze and block capillary tubing.
5. Water may lead to corrosion of parts in the refrigeration system.

Therefore, after evacuating the system, take a leak test for the piping and tubing between the indoor and outdoor unit.

Air purging with vacuum pump

1. Preparation

- Check that each tube(both liquid and gas side tubes) between the indoor and outdoor units have been properly connected and all wiring for the test run has been completed. Remove the service valve caps from both the gas and the liquid side on the outdoor unit. Note that both the liquid and the gas side service valves on the outdoor unit are kept closed at this stage.

2. Leak test

- Connect the manifold valve(with pressure gauges) and dry nitrogen gas cylinder to this service port with charge hoses.

CAUTION

Be sure to use a manifold valve for air purging. If it is not available, use a stop valve for this purpose. The knob of the 3-way valve must always be kept close.

- Pressurize the system to maximum 17.6kg/cm²G (R-22 model) or 28.1kg/cm²G (R-410A model) with dry nitrogen gas and close the cylinder valve when the gauge reading reaches 17.6kg/cm²G (R-22 model) or 28.1kg/cm²G (R-410A model). Next step is leak test with liquid soap.

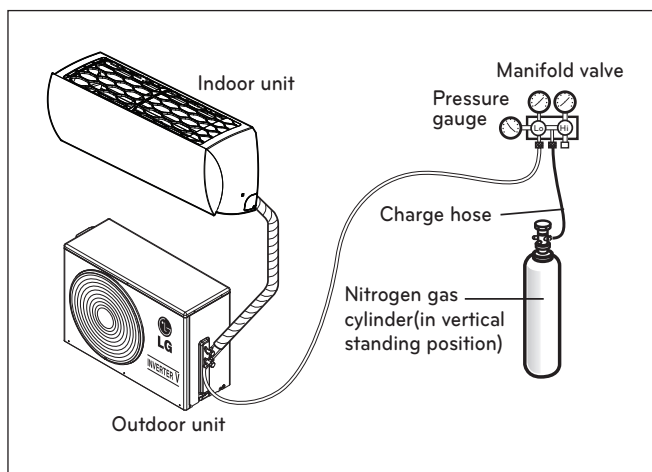
CAUTION

To avoid nitrogen entering the refrigerant system in a liquid state, the top of the cylinder must be higher than its bottom when you pressurize the system. Usually, the cylinder is used in a vertical standing position.

CAUTION

There is a risk of fire and explosion. Inert gas (nitrogen) should be used when you check plumbing leaks, cleaning or repairs of pipes etc. If you are using combustible gases including oxygen, product may have the risk of fires and explosions.

- Do a leak test of all joints of the piping(both indoor and outdoor) and both gas and liquid side service valves. Bubbles indicate a leak. Be sure to wipe off the soap with a clean cloth.
- After the system is found to be free of leaks, relieve the nitrogen pressure by loosening the charge hose connector at the nitrogen cylinder. When the system pressure is reduced to normal, disconnect the hose from the cylinder.



Soap water method

1. Remove the caps from the 2-way and 3-way valves.
2. Remove the service-port cap from the 3-way valve.
3. Apply a soap water or a liquid neutral detergent on the indoor unit connection or outdoor unit connections by a soft brush to check for leakage of the connecting points of the piping.
4. If bubbles come out, the pipes have leakage

Evacuation

1. Connect the charge hose end described in the preceding steps to the vacuum pump to evacuate the tubing and indoor unit. Confirm the "Lo" knob of the pressure Gauge is open. Then, run the vacuum pump. The operation time for evacuation varies with tubing length and capacity of the pump. The following table shows the time required for evacuation.

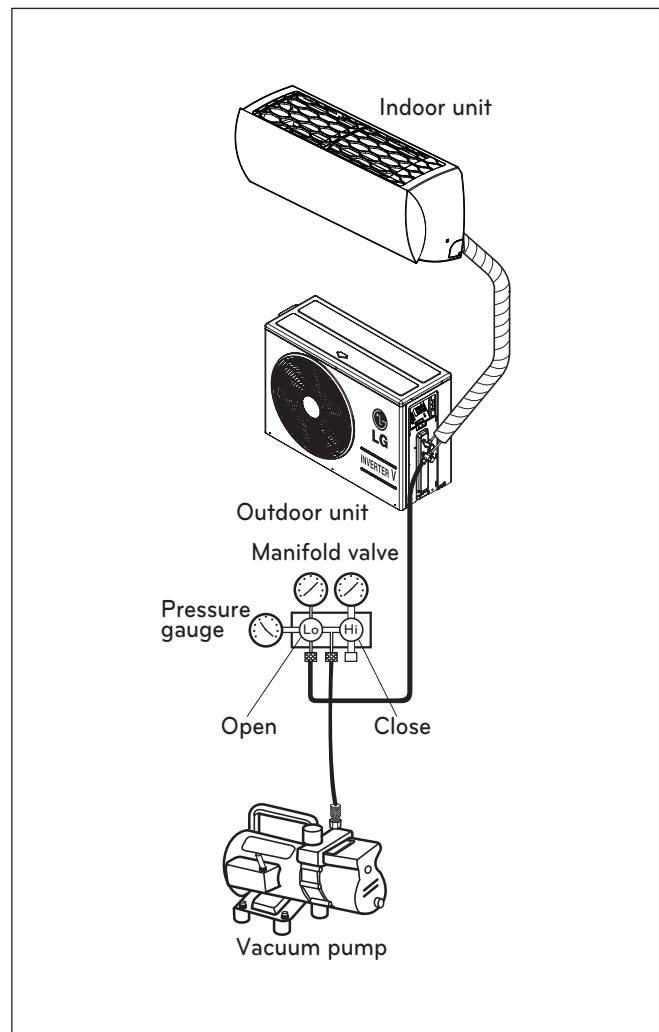
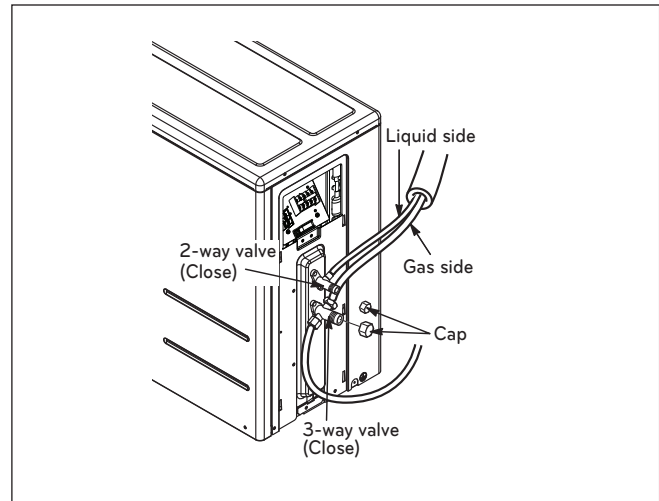
* The feature can be changed according to type of model.

Required time for evacuation when 30 gal/h vacuum pump is used	
If tubing length is less than 10m (33 ft)	If tubing length is longer than 10m (33 ft)
10 min. or more	15 min. or more

2. When the desired vacuum is reached, close the knob of the 3-way valve and stop the vacuum pump.

Finishing the Job

1. With a service valve wrench, turn the valve of liquid side counter-clockwise to fully open the valve
2. Turn the valve of gas side counter clockwise to fully open the valve
3. Loosen the charge hose connected to the gas side service port slightly to release the pressure, then remove the hose.
4. Replace the flare nut and its bonnet on the gas side service port and fasten the flare nut securely with an adjustable wrench. This process is very important to prevent leakage from the system
5. Replace the valve caps at both gas and liquid side service valves and fasten them tight. This completes air purging with a vacuum pump.
6. Replace the pipe cover to the outdoor unit by one screw. Now the air conditioner is ready for test run.



Test Running

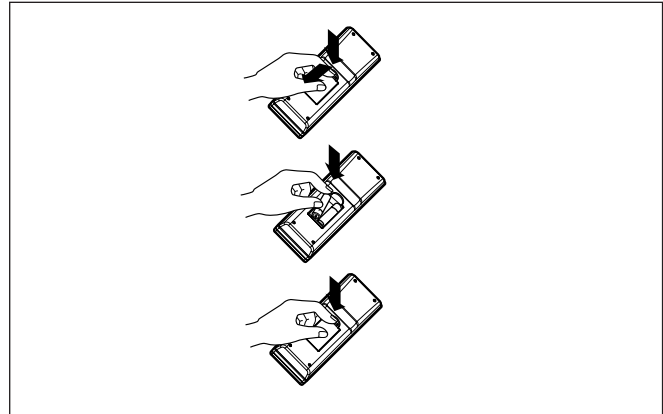
1. Check that all tubing and wiring are properly connected.
2. Check that the gas and liquid side service valves are fully open.

Prepare remote controller

1. Remove the battery cover by pulling it according to the arrow direction.
2. Insert new batteries making sure that the (+) and (–) of battery are installed correctly.
3. Reattach the cover by pushing it back into position.

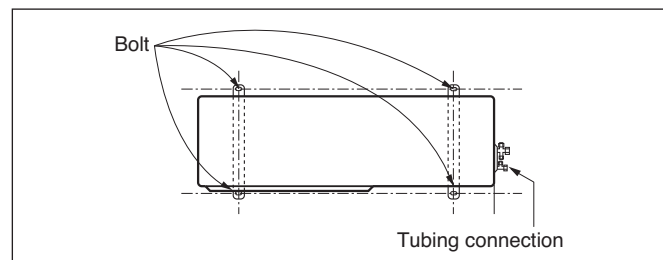
NOTICE

- Use 2 AAA(1.5volt) batteries. Do not use rechargeable batteries.
- Remove the batteries from the remote controller if the system is not used for a long time.



Settlement of outdoor unit

1. Fix the outdoor unit with a bolt and nut(ø10mm) tightly and horizontally on a concrete or rigid mount.
2. When installing on the wall, roof or rooftop, anchor the mounting base securely with a nail or wire assuming the influence of wind and earthquake.
3. If the vibration of the unit is transmitted to the pipe, secure the unit with an anti-vibration rubber.



Evaluation of the performance

Operate the unit for 15~20 minutes, then check the system refrigerant charge:

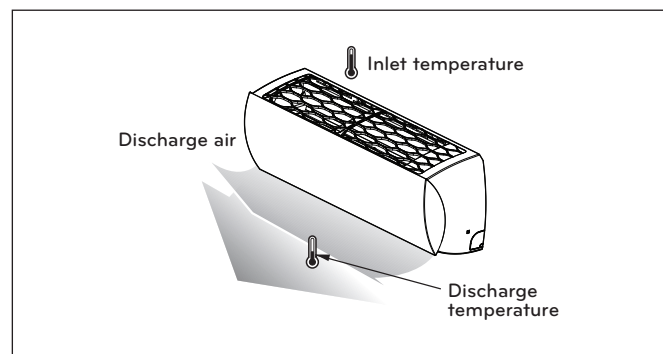
1. Measure the pressure of the gas side service valve.
2. Measure the air temperature from inlet and outlet of air conditioner.
3. Ensure the difference between the inlet and outlet temperature is more than 8°C.
4. For reference; the gas side pressure at optimum condition is shown on table (cooling)

The air conditioner is now ready to use.

Refrigerant	Outside ambient TEMP.	The pressure of the gas side service valve.
R-22	35°C (95°F)	4~5kg/cm ² G (56.8~71.0 P.S.I.G.)
R-410A	35°C (95°F)	8.5~9.5kg/cm ² G (120~135 P.S.I.G.)

NOTICE

If the actual pressure is higher than shown, the system is most likely over-charged, and charge should be removed. If the actual pressure are lower than shown, the system is most likely undercharged, and charge should be added.



Pump Down

This is performed when the unit is relocated or the refrigerant circuit is serviced.

Pump Down means collecting all refrigerant into the outdoor unit without the loss of refrigerant.

⚠ CAUTION

Be sure to perform Pump Down procedure in the cooling mode.

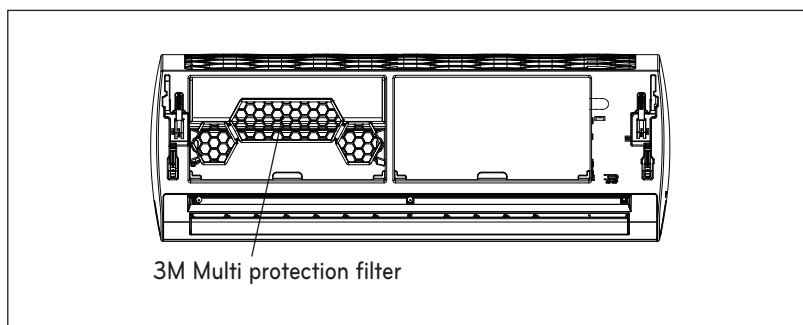
Pump Down Procedure

1. Connect a low-pressure gauge manifold hose to the charge port on the gas side service valve.
2. Open the gas side service valve halfway and purge the air in the manifold hose using the refrigerant.
3. Close the liquid side service valve(all the way).
4. Turn on the units operating switch and start the cooling operation.
5. When the low-pressure gauge reading becomes 1 to 0.5kg/cm² G(14.2 to 7.1 P.S.I.G.), fully close the gas side valve and then quickly turn off the unit. Now Pump Down procedure is completed, and all refrigerant is collected into the outdoor unit.

Mode	Indoor temperature	Outdoor temperature
Cooling	18°C ~ 32°C	-10°C ~ 48°C
Heating	16°C ~ 30°C	-15°C ~ 24°C

Installation of 3M filter

1. Pull out the 3M Multi protection filter assembly from the plastic bag.
2. Insert the 3M Multi protection filter assembly to the front grille.



* The feature can be changed according to a type of model.

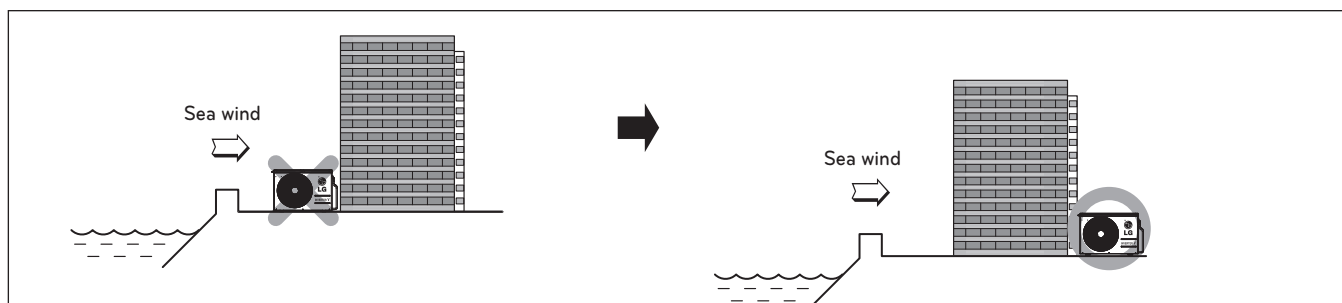
Installation Guide for Areas Exposed to Sea Wind

⚠ CAUTION

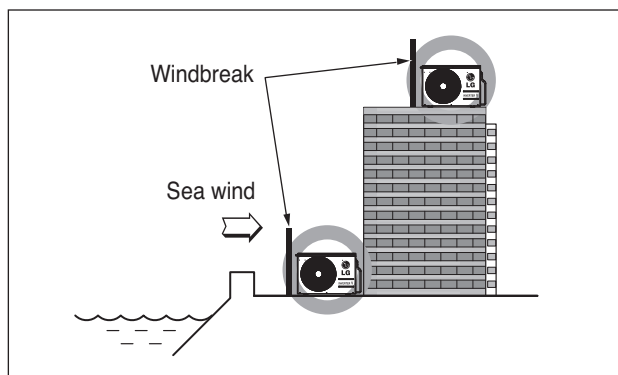
1. Air conditioners should not be installed in areas where corrosive gases, such as acid or alkaline gas, are produced.
2. Do not install the product where it could be exposed to sea wind (salty wind) directly. It can result corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient performance.
3. If outdoor unit is installed close to the seaside, it should avoid direct exposure to the sea wind. Otherwise it needs additional anticorrosion treatment on the heat exchanger.

Selecting the location(Outdoor Unit)

- 1) If the outdoor unit is to be installed close to the seaside, then direct exposure to the sea wind should be avoided. Install the outdoor unit on the opposite side of the sea wind direction.



- 2) In case of installing the outdoor unit on the sea side, setup a windbreak to prevent sea wind.



- It should be strong enough like concrete to prevent the sea wind from the sea.
- The height and width should be more than 150% of the outdoor unit.
- Keep more than 70 cm of space between outdoor unit and the windbreak for easy air flow.

- 3) Select a well-drained place.

1. If you can't meet above guide line in the seaside installation, please contact LG Electronics for the additional anticorrosion treatment.
 2. Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchanger by using water
- * Do not use seawater when you clean up the heat exchanger.

14. Website Information

Model : AS-W0963WB0(G09WL)

Outdoor unit
G09WL UL2 / G09WL NS3

Indoor unit

Function (indicate if present)		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	N
		Colder (if designated)	N
Item	symbol	value	unit
Design load	cooling	2.5	kW
	heating / Average	2.7	kW
	heating / Warmer	x.x	kW
	heating / Colder	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	2.5	kW
Tj=30°C	Pdc	1.7	kW
Tj=25°C	Pdc	1.2	kW
Tj=20°C	Pdc	1.2	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	Pdh	2.4	kW
Tj=2°C	Pdh	1.4	kW
Tj=7°C	Pdh	1.1	kW
Tj=12°C	Pdh	1.2	kW
Tj=bivalent temperature	Pdh	2.7	kW
Tj=operating limit	Pdh	2.8	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	x.x	kW
Tj=7°C	Pdh	x.x	kW
Tj=12°C	Pdh	x.x	kW
Tj=bivalent temperature	Pdh	x.x	kW
Tj=operating limit	Pdh	x.x	kW
Seasonal efficiency		Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj	
cooling	SEER	5.7	-
heating / Average	SCOP/A	3.8	-
heating / Warmer	SCOP/W	x.x	-
heating / Colder	SCOP/C	x.x	-
Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj		Declared Coefficient of performance* for cooling, at indoor temperature 20°C and outdoor temperature Tj	
Tj=7°C	COPd	2.5	-
Tj=2°C	COPd	3.8	-
Tj=7°C	COPd	4.6	-
Tj=12°C	COPd	5.5	-
Tj=bivalent temperature	COPd	2.5	-
Tj=operating limit	COPd	2.4	-
Declared Coefficient of performance* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj		Declared Coefficient of performance* for cooling, at indoor temperature 20°C and outdoor temperature Tj	
Tj=2°C	COPd	x.x	-
Tj=7°C	COPd	x.x	-
Tj=12°C	COPd	x.x	-
Tj=bivalent temperature	COPd	x.x	-
Tj=operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj		Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj	
Tj=-7°C	Pdh	x.x	kW
Tj=-2°C	Pdh	x.x	kW
Tj=7°C	Pdh	x.x	kW
Tj=12°C	Pdh	x.x	kW
Tj=bivalent temperature	Pdh	x.x	kW
Tj=operating limit	Pdh	x.x	kW
Bivalent temperature		Bivalent temperature	
heating / Average	Tbiv	-8	°C
heating / Warmer	Tbiv	x	°C
heating / Colder	Tbiv	x	°C
Cycling interval capacity		Cycling interval capacity	
for cooling	Psycc	x.x	kW
for heating	Psych	x.x	kW
Degradation		Degradation	
cooling**	Cdc	0.25	-
heating**	Cdh	0.25	-
Electric power input in power modes other than 'active mode'		Electric power input in power modes other than 'active mode'	
off mode	P _{OFF}	0.001	kW
standby mode	P _{SB}	0.001	kW
thermostat-off mode	P _{TO}	0.013	kW
crankcase heater mode	P _{CHK}	0	kW
Capacity control (indicate one of three options)		Capacity control (indicate one of three options)	
fixed	N	fixed	N
staged	N	staged	N
variable	Y	variable	Y
Other items		Other items	
Sound power level	L _{WA}	60/65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq
Rated air flow (indoor/outdoor)	-	540/1980	m ³ /h
Christiana PAPAZAHARIOU Internal communicator - Energy & environment regulations expert LG Electronics Paris Nord II - 117 avenue des Nations BP 59372 Villepinte - 95942 Roissy CDG Cedex chris.papazahariou@lge.com Tel. +33 1 49 89 57 41 - +33 6 83 077 455			
* = For staged capacity units, two values divided by a slash (/) will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COP" of the unit. ** = If default C _d =0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			



Life's Good

Model : AS-W1263WB0(G12WL)

Outdoor unit Indoor unit
G12WL UL2 / G12WL NS3

Function (indicate if present)		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	N
		Colder (if designated)	N
Item	symbol	value	unit
Design load	P _{designc}	3.5	kW
	P _{designh}	3.3	kW
	P _{designh}	x.x	kW
	P _{designh}	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature T _j			
T _j =35°C	P _{dc}	3.5	kW
T _j =30°C	P _{dc}	2.4	kW
T _j =25°C	P _{dc}	1.5	kW
T _j =20°C	P _{dc}	1.1	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature T _j			
T _j =7°C	P _{dh}	2.7	kW
T _j =2°C	P _{dh}	1.7	kW
T _j =7°C	P _{dh}	1.1	kW
T _j =12°C	P _{dh}	1.2	kW
T _j =bivalent temperature	P _{dh}	3.0	kW
T _j =operating limit	P _{dh}	3.1	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature T _j			
T _j =2°C	P _{dh}	x.x	kW
T _j =7°C	P _{dh}	x.x	kW
T _j =12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Item		symbol	value
Seasonal efficiency	cooling	SEER	5.6
	heating / Average	SCOP/A	3.8
	heating / Warmer	SCOP/W	x.x
	heating / Colder	SCOP/C	x.x
Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature T _j			
T _j =35°C	EERd	3.2	-
T _j =30°C	EERd	4.7	-
T _j =25°C	EERd	6.5	-
T _j =20°C	EERd	8.4	-
Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature T _j			
T _j =7°C	COPd	2.4	-
T _j =2°C	COPd	3.7	-
T _j =7°C	COPd	4.9	-
T _j =12°C	COPd	5.8	-
T _j =bivalent temperature	COPd	2.4	-
T _j =operating limit	COPd	2.3	-
Declared Coefficient of performance* / Warmer climate, at indoor temperature 20°C and outdoor temperature T _j			
T _j =2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature T _j			
T _j =7°C	COPd	x.x	-
T _j =2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature T _j			
T _j =7°C	P _{dh}	x.x	kW
T _j =2°C	P _{dh}	x	°C
T _j =7°C	P _{dh}	x	°C
T _j =12°C	P _{dh}	x	°C
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Declared Coefficient of performance* / Colder climate, at indoor temperature 20°C and outdoor temperature T _j			
T _j =7°C	COPd	x.x	-
T _j =2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Operating limit temperature			
heating / Average	Tol	-10	°C
heating / Warmer	Tol	x	°C
heating / Colder	Tol	x	°C
Cycling interval efficiency			
for cooling	EEReye	x.x	-
for heating	COPeye	x.x	-
Degradation heating**			
co-efficient	Cdh	0.25	-
Annual electricity consumption			
cooling	Q _{CE}	220	kWh/a
heating / Average	Q _{HE}	1244	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Other items			
Sound (indoor/outdoor)	level L _{WA}	60/65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq
Rated air flow (indoor/outdoor)	-	540/1980	m ³ /h
Contact details for obtaining more information			
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*For staged capacity units, two values divided by a slash ('/') will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COP" of the unit. **= If default Cd=0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			



Model : AS-W096MMS3(H09AK)

Outdoor unit Indoor unit
H09AK UL2 / H09AK NSM

Function (indicate if present)		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	N
		Colder (if designated)	N
Item	symbol	value	unit
Design load	Pdesignc	2.5	kW
	Pdesignh	3.2	kW
	Pdesignh	x.x	kW
	Pdesignh	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	2.5	kW
Tj=30°C	Pdc	1.8	kW
Tj=25°C	Pdc	1.2	kW
Tj=20°C	Pdc	1.0	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	Pdh	3.1	kW
Tj=2°C	Pdh	1.7	kW
Tj=7°C	Pdh	1.2	kW
Tj=12°C	Pdh	0.9	kW
Tj=bivalent temperature	Pdh	3.4	kW
Tj=operating limit	Pdh	3.3	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	x.x	kW
Tj=7°C	Pdh	x.x	kW
Tj=12°C	Pdh	x.x	kW
Tj=bivalent temperature	Pdh	x.x	kW
Tj=operating limit	Pdh	x.x	kW
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	Pdh	x.x	kW
Tj=2°C	Pdh	x.x	kW
Tj=7°C	Pdh	x.x	kW
Tj=12°C	Pdh	x.x	kW
Tj=bivalent temperature	Pdh	x.x	kW
Tj=operating limit	Pdh	x.x	kW
Tj=15°C	Pdh	x.x	kW
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	Pdh	x.x	kW
Tj=2°C	Pdh	x.x	kW
Tj=7°C	Pdh	x.x	kW
Tj=12°C	Pdh	x.x	kW
Tj=bivalent temperature	Pdh	x.x	kW
Tj=operating limit	Pdh	x.x	kW
Tj=15°C	Pdh	x.x	kW
Declared Coefficient of performance* / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	COPd	x.x	-
Tj=2°C	COPd	x.x	-
Tj=7°C	COPd	x.x	-
Tj=12°C	COPd	x.x	-
Tj=bivalent temperature	COPd	x.x	-
Tj=operating limit	COPd	x.x	-
Tj=15°C	COPd	x.x	-
Operating limit temperature			
heating / Average	Tol	-10	°C
heating / Warmer	Tol	x	°C
heating / Colder	Tol	x	°C
Cycling interval efficiency			
for cooling	EEReye	x.x	-
for heating	COPeye	x.x	-
Degradation heating**			
co-efficient Cdh		0.25	-
Annual electricity consumption			
cooling	Qce	96	kWh/a
heating / Average	Qhe	862	kWh/a
heating / Warmer	Qhe	x	kWh/a
heating / Colder	Qhe	x	kWh/a
Other items			
Sound power level	LWA	57/65	dB(A)
Global warming potential	GWP	1975	kgCO2 eq.
Rated air flow (indoor/outdoor)		990/1980	m3/h
Contact details for obtaining more information			
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* = For staged capacity units, two values divided by a slash (/) will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COP" of the unit. ** = If default Cdh=0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			



Life's Good

Model : AS-W126MMS3(H12AK)

Outdoor unit Indoor unit
H12AK UL2 / H12AK NSM

Function (indicate if present)		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	N
		Colder (if designated)	N
Item	symbol	value	unit
Design load			
cooling	P _{designc}	3.5	kW
heating / Average	P _{designh}	4.0	kW
heating / Warmer	P _{designh}	x.x	kW
heating / Colder	P _{designh}	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature T_j			
T _j =35°C	P _{dc}	3.5	kW
T _j =30°C	P _{dc}	2.6	kW
T _j =25°C	P _{dc}	1.5	kW
T _j =20°C	P _{dc}	1.1	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	P _{dh}	3.5	kW
T _j =2°C	P _{dh}	2.0	kW
T _j =-7°C	P _{dh}	1.4	kW
T _j =-12°C	P _{dh}	0.9	kW
T _j =bivalent temperature	P _{dh}	3.7	kW
T _j =operating limit	P _{dh}	3.9	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =2°C	P _{dh}	x.x	kW
T _j =-7°C	P _{dh}	x.x	kW
T _j =-12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Seasonal efficiency			
cooling	SEER	8.9	-
heating / Average	SCOP/A	5.1	-
heating / Warmer	SCOP/W	x.x	-
heating / Colder	SCOP/C	x.x	-
Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature T_j			
T _j =35°C	EERd	4.4	-
T _j =30°C	EERd	6.8	-
T _j =25°C	EERd	10.5	-
T _j =20°C	EERd	15.5	-
Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	COPd	3.1	-
T _j =2°C	COPd	4.9	-
T _j =-7°C	COPd	6.6	-
T _j =-12°C	COPd	7.3	-
T _j =bivalent temperature	COPd	3.3	-
T _j =operating limit	COPd	3.1	-
Declared Coefficient of performance* / Warmer climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =2°C	COPd	x.x	-
T _j =-7°C	COPd	x.x	-
T _j =-12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =-7°C	COPd	x.x	-
T _j =-2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =-7°C	P _{dh}	x.x	kW
T _j =-2°C	P _{dh}	x.x	kW
T _j =7°C	P _{dh}	x.x	kW
T _j =12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =-7°C	P _{dh}	x.x	kW
T _j =-2°C	P _{dh}	x.x	kW
T _j =7°C	P _{dh}	x.x	kW
T _j =12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Declared Coefficient of performance* / Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =-7°C	COPd	x.x	-
T _j =-2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Operating limit temperature			
heating / Average	Tol	-10	°C
heating / Warmer	Tol	x	°C
heating / Colder	Tol	x	°C
Cycling interval efficiency			
for cooling	EEReye	x.x	-
for heating	COPEye	x.x	-
Degradation heating**			
cooling	co-efficient C _{dc}	0.25	-
Annual electricity consumption			
cooling	Q _{CE}	138	kWh/a
heating / Average	Q _{HE}	1098	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Other items			
Sound (indoor/outdoor)	power level L _{WA}	57/65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq
Rated air flow (indoor/outdoor)	-	990/1980	m ³ /h
Contact details for obtaining more information			
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** For staged capacity units, two values divided by a slash (/) will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COPE" of the unit. **= If de fault C _{dc} =0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			

Model : AS-W096BNR3(D09AK)

Outdoor unit Indoor unit Outdoor unit Indoor unit
S09AK UL2 / A09RK NSB S09AK UL2 / A09WK NSB
S09AK UL2 / A09VK NSB S09AK UL2 / D09AK NSB

Function (indicate if present)		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	N
		Colder (if designated)	N
Item	symbol	value	unit
Design load			
cooling	P _{designc}	2.5	kW
heating / Average	P _{designh}	3.5	kW
heating / Warmer	P _{designh}	x.x	kW
heating / Colder	P _{designh}	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature T_j			
T _j =35°C	P _{dc}	2.5	kW
T _j =30°C	P _{dc}	1.7	kW
T _j =25°C	P _{dc}	1.2	kW
T _j =20°C	P _{dc}	0.9	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	P _{dh}	2.8	kW
T _j =2°C	P _{dh}	1.7	kW
T _j =-7°C	P _{dh}	1.1	kW
T _j =-12°C	P _{dh}	1.0	kW
T _j =bivalent temperature	P _{dh}	2.8	kW
T _j =operating limit	P _{dh}	3.2	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =2°C	P _{dh}	x.x	kW
T _j =7°C	P _{dh}	x.x	kW
T _j =12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Seasonal efficiency			
cooling	SEER	6.2	-
heating / Average	SCOP/A	4.0	-
heating / Warmer	SCOP/W	x.x	-
heating / Colder	SCOP/C	x.x	-
Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature T_j			
T _j =35°C	EERd	4.4	-
T _j =30°C	EERd	6.2	-
T _j =25°C	EERd	8.3	-
T _j =20°C	EERd	8.8	-
Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	COPd	2.7	-
T _j =2°C	COPd	3.8	-
T _j =-7°C	COPd	5.0	-
T _j =-12°C	COPd	5.3	-
T _j =bivalent temperature	COPd	2.7	-
T _j =operating limit	COPd	2.5	-
Declared Coefficient of performance* / Warmer climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =-7°C	P _{dh}	x.x	kW
T _j =-2°C	P _{dh}	x.x	kW
T _j =7°C	P _{dh}	x.x	kW
T _j =12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Declared Coefficient of performance* / Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =-7°C	COPd	x.x	-
T _j =-2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Operating limit temperature			
heating / Average	Tol	-10	°C
heating / Warmer	Tol	x	°C
heating / Colder	Tol	x	°C
Cycling interval efficiency			
for cooling	EEReye	x.x	-
for heating	COPEye	x.x	-
Degradation heating**			
co-efficient C _{de}	0.25	-	-
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	level L _{WA}	57/65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq
Rated air flow (indoor/outdoor)	-	720/1980	m ³ /h
Contact details for obtaining more information			
Christiana PAPAZAHARIOU Internal communications LG Electronics Paris Nord II – 117 avenue des Nations BP 59372 Villepinte – 95942 Roissy CDG Cedex chris.papazahariou@lge.com Tel. +33 1 49 89 57 41, +33 6 83 077 455			
*For staged capacity units, two values divided by a slash (/) will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COP" of the unit.			
**= If default C _{de} =0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			

Model : AS-W126BNR3(D12AK)

Outdoor unit Indoor unit
S12AK UL2 / A12RK NSB / A12WK NSB
S12AK UL2 / A12VK NSB / D12AK NSB

Function (indicate if present)		cooling		heating	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
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Y		Y		Y	
Y		Y		Y	
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Y		Y		Y	
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Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y		Y	
Y		Y			



Models : AS-W096BWR4(A09WL), AS-W096BRR4(A09RL), US-W096B8F0(P09RL)

Outdoor unit Indoor unit
P09RL UA3 / A09RL NSB

Outdoor unit Indoor unit
P09RL UA3 / P09RL NSB
P09RL UA3 / A09WL NSB

Function (indicate if present)		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	N
		Colder (if designated)	N
Item	symbol	value	unit
Design load			
cooling	P _{designc}	2.5	kW
heating / Average	P _{designh}	2.8	kW
heating / Warmer	P _{designh}	x.x	kW
heating / Colder	P _{designh}	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	P _{dc}	2.5	kW
Tj=30°C	P _{dc}	1.8	kW
Tj=25°C	P _{dc}	1.3	kW
Tj=20°C	P _{dc}	1.2	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	P _{dh}	2.7	kW
Tj=2°C	P _{dh}	1.4	kW
Tj=7°C	P _{dh}	1.1	kW
Tj=12°C	P _{dh}	1.3	kW
Tj=bivalent temperature	P _{dh}	2.8	kW
Tj=operating limit	P _{dh}	2.8	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	P _{dh}	x.x	kW
Tj=7°C	P _{dh}	x.x	kW
Tj=12°C	P _{dh}	x.x	kW
Tj=bivalent temperature	P _{dh}	x.x	kW
Tj=operating limit	P _{dh}	x.x	kW
Seasonal efficiency			
cooling	SEER	6.2	-
heating / Average	SCOP/A	3.8	-
heating / Warmer	SCOP/W	x.x	-
heating / Colder	SCOP/C	x.x	-
Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	EERd	3.7	-
Tj=30°C	EERd	5.6	-
Tj=25°C	EERd	9.0	-
Tj=20°C	EERd	10.8	-
Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	COPd	2.6	-
Tj=2°C	COPd	3.8	-
Tj=7°C	COPd	5.1	-
Tj=12°C	COPd	5.5	-
Tj=bivalent temperature	COPd	2.4	-
Tj=operating limit	COPd	2.7	-
Declared Coefficient of performance* / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	COPd	x.x	-
Tj=7°C	COPd	x.x	-
Tj=12°C	COPd	x.x	-
Tj=bivalent temperature	COPd	x.x	-
Tj=operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	P _{dh}	x.x	kW
Tj=2°C	P _{dh}	x.x	kW
Tj=7°C	P _{dh}	x.x	kW
Tj=12°C	P _{dh}	x.x	kW
Tj=bivalent temperature	P _{dh}	x.x	kW
Tj=operating limit	P _{dh}	x.x	kW
Operating limit temperature heating / Warmer heating / Colder heating			
Tol		-10	°C
Tol		x	°C
Tol		x	°C
Cycling interval efficiency for cooling for heating			
EEReye		x.x	-
COeye		x.x	-
Degradation heating**			
co-efficient C _{dh}		0.25	-
Annual electricity consumption			
cooling	Q _{CE}	141	kWh/a
heating / Average	Q _{HE}	1179	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Other items			
Sound power level L _{WA} (indoor/outdoor)		58/65	dB(A)
Global warming potential GWP		1975	kgCO ₂ eq
Rated air flow (indoor/outdoor)		720/1980	m ³ /h
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Contact details for obtaining more information			
Christiana PAPAZAHARIOU Internal communications - Energy & environment regulations expert Paris Nord II - 117 avenue des Nations BP 59372 Villepinte - 95942 Roissy CDG Cedex chris.papazahariou@lge.com Tel. +33 1 49 89 57 41, +33 6 83 077 455			
*For staged capacity units, two values divided by a slash (/) will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COP" of the unit.			
**If default C _{dh} =0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			

Models : AS-W126BWR4(A12WL), AS-W126BRR4(A12RL), US-W126B8F0(P12RL)

Outdoor unit Indoor unit
P12RL UA3 / P12RL NSB
P12RL UA3 / A12WL NSB

Function (indicate if present)			
cooling	Y		
heating	Y		
Item	symbol	value	unit
Design load			
cooling	P _{designh}	3.5	kW
heating / Average	P _{designh}	3.2	kW
heating / Warmer	P _{designh}	x.x	kW
heating / Colder	P _{designh}	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	P _{dc}	3.5	kW
Tj=30°C	P _{dc}	2.6	kW
Tj=25°C	P _{dc}	1.6	kW
Tj=20°C	P _{dc}	1.2	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	P _{dh}	2.8	kW
Tj=2°C	P _{dh}	1.7	kW
Tj=7°C	P _{dh}	1.2	kW
Tj=12°C	P _{dh}	1.3	kW
Tj=bivalent temperature	P _{dh}	3.4	kW
Tj=operating limit	P _{dh}	3.2	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	P _{dh}	x.x	kW
Tj=7°C	P _{dh}	x.x	kW
Tj=12°C	P _{dh}	x.x	kW
Tj=bivalent temperature	P _{dh}	x.x	kW
Tj=operating limit	P _{dh}	x.x	kW
If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
Average (mandatory)		Y	
Warmer (if designated)		N	
Colder (if designated)		N	
Item	symbol	value	unit
Seasonal efficiency			
cooling	SEER	6.1	-
heating / Average	SCOP/A	3.8	-
heating / Warmer	SCOP/W	x.x	-
heating / Colder	SCOP/C	x.x	-
Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	EERd	3.2	-
Tj=30°C	EERd	5.0	-
Tj=25°C	EERd	7.8	-
Tj=20°C	EERd	10.8	-
Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	COPd	2.5	-
Tj=2°C	COPd	3.9	-
Tj=7°C	COPd	5.0	-
Tj=12°C	COPd	5.5	-
Tj=bivalent temperature	COPd	2.5	-
Tj=operating limit	COPd	2.5	-
Declared Coefficient of performance* / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	COPd	x.x	-
Tj=7°C	COPd	x.x	-
Tj=12°C	COPd	x.x	-
Tj=bivalent temperature	COPd	x.x	-
Tj=operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	P _{dh}	x.x	kW
Tj=2°C	P _{dh}	x.x	kW
Tj=7°C	P _{dh}	x.x	kW
Tj=12°C	P _{dh}	x.x	kW
Tj=bivalent temperature	P _{dh}	x.x	kW
Tj=operating limit	P _{dh}	x.x	kW
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	P _{dh}	x.x	kW
Tj=2°C	P _{dh}	x.x	kW
Tj=7°C	P _{dh}	x.x	kW
Tj=12°C	P _{dh}	x.x	kW
Tj=bivalent temperature	P _{dh}	x.x	kW
Tj=operating limit	P _{dh}	x.x	kW
Operating limit temperature			
heating / Average	T _{ol}	-10	°C
heating / Warmer	T _{ol}	x	°C
heating / Colder	T _{ol}	x	°C
Cycling interval efficiency			
for cooling	EER _{eye}	x.x	-
for heating	COPE _{eye}	x.x	-
Degradation heating**			
cooling	C _{dh}	0.25	-
Annual electricity consumption			
cooling	Q _{CE}	201	kWh/a
heating / Average	Q _{HE}	1400	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Other items			
Sound (indoor/outdoor)	power level L _{WA}	58/65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	720/1980	m ³ /h
Christianna PAPAZHARIOU Internal communicator - Energy & environment regulations expert LG Electronics Paris Nord II - 117 avenue des Nations BP 59372 Villepinte - 95942 Roissy CDG Cedex chris.papazaharou@lge.com Tel. +33 1 49 89 57 41, +33 6 83 077 455			
* = For staged capacity units, two values divided by a slash (/) will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COP" of the unit. ** = If default Cd=0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			

Model : AS-W186CRR4(A18RL)

Outdoor unit Indoor unit
A18RL UUE / A18RL NSC

Function (indicate if present)		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	N
		Colder (if designated)	N
Item	symbol	value	unit
Design load			
cooling	P _{design}	5.2	kW
heating / Average	P _{design}	5.2	kW
heating / Warmer	P _{design}	x.x	kW
heating / Colder	P _{design}	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature T_j			
T _j =35°C	P _{dc}	5.2	kW
T _j =30°C	P _{dc}	3.7	kW
T _j =25°C	P _{dc}	2.4	kW
T _j =20°C	P _{dc}	1.1	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	P _{dh}	4.3	kW
T _j =2°C	P _{dh}	2.8	kW
T _j =-7°C	P _{dh}	1.8	kW
T _j =-12°C	P _{dh}	1.1	kW
T _j =bivalent temperature	P _{dh}	4.7	kW
T _j =operating limit	P _{dh}	4.7	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =2°C	P _{dh}	x.x	kW
T _j =7°C	P _{dh}	x.x	kW
T _j =12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Seasonal efficiency			
cooling	SEER	6.1	-
heating / Average	SCOP/A	3.8	-
heating / Warmer	SCOP/W	x.x	-
heating / Colder	SCOP/C	x.x	-
Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature T_j			
T _j =35°C	EERd	3.5	-
T _j =30°C	EERd	5.2	-
T _j =25°C	EERd	7.4	-
T _j =20°C	EERd	8.3	-
Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	COPd	2.5	-
T _j =2°C	COPd	4.0	-
T _j =-7°C	COPd	4.5	-
T _j =-12°C	COPd	4.0	-
T _j =bivalent temperature	COPd	2.6	-
T _j =operating limit	COPd	2.5	-
Declared Coefficient of performance* / Warmer climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =-7°C	P _{dh}	x.x	kW
T _j =-2°C	P _{dh}	x.x	kW
T _j =7°C	P _{dh}	x.x	kW
T _j =12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Declared Coefficient of performance* / Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =-7°C	COPd	x.x	-
T _j =-2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Operating limit temperature heating / Warmer heating / Colder heating			
heating / Average	Tol	-10	°C
heating / Warmer	Tol	x	°C
heating / Colder	Tol	x	°C
Cycling interval efficiency for cooling for heating			
for cooling	EEReye	x.x	-
for heating	COPeye	x.x	-
Degradation heating**			
co-efficient	C _{dh}	0.25	-
Annual electricity consumption			
cooling	Q _{CE}	299	kWh/a
heating / Average	Q _{HE}	1916	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Other items			
Sound power level	L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq
Rated air flow (indoor/outdoor)	-	1140 / 3000	m ³ /h
Contact details for obtaining more information			
Christiana PAPAZAHARIOU Internal communicator - Energy & environment regulations expert LG Electronics Paris Nord II - 117 avenue des Nations BP 59372 Villepinte - 95942 Roissy CDG Cedex chris.papazahariou@lge.com Tel. +33 1 49 89 57 41, +33 6 83 077 455			
* For staged capacity units, two values divided by a slash (/) will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COP" of the unit. ** If default C _{dh} =0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			

Models : US-W096H4A0(E09EL), US-W096HSA0(Z09SL)

Outdoor unit Indoor unit
E09EL UA3 / E09EL NSH
E09EL UA3 / Z09SL NSH

Function (indicate if present)		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	N
		Colder (if designated)	N
Item	symbol	value	unit
Design load			
cooling	P _{designc}	2.5	kW
heating / Average	P _{designh}	2.8	kW
heating / Warmer	P _{designh}	x.x	kW
heating / Colder	P _{designh}	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature T_j			
T _j =35°C	P _{dc}	2.5	kW
T _j =30°C	P _{dc}	1.8	kW
T _j =25°C	P _{dc}	1.3	kW
T _j =20°C	P _{dc}	1.2	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	P _{dh}	2.7	kW
T _j =2°C	P _{dh}	1.4	kW
T _j =7°C	P _{dh}	1.1	kW
T _j =12°C	P _{dh}	1.3	kW
T _j =bivalent temperature	P _{dh}	2.8	kW
T _j =operating limit	P _{dh}	3.0	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =2°C	P _{dh}	x.x	kW
T _j =7°C	P _{dh}	x.x	kW
T _j =12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Seasonal efficiency			
cooling	SEER	5.9	-
heating / Average	SCOP/A	3.8	-
heating / Warmer	SCOP/W	x.x	-
heating / Colder	SCOP/C	x.x	-
Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature T_j			
T _j =35°C	EERd	3.6	-
T _j =30°C	EERd	5.6	-
T _j =25°C	EERd	9.0	-
T _j =20°C	EERd	10.5	-
Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	COPd	2.6	-
T _j =2°C	COPd	3.8	-
T _j =7°C	COPd	5.1	-
T _j =12°C	COPd	5.5	-
T _j =bivalent temperature	COPd	2.7	-
T _j =operating limit	COPd	2.5	-
Declared Coefficient of performance* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	P _{dh}	x.x	kW
T _j =2°C	P _{dh}	x.x	kW
T _j =7°C	P _{dh}	x.x	kW
T _j =12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Declared Coefficient of performance* for Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	COPd	x.x	-
T _j =2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	P _{dh}	x.x	kW
T _j =2°C	P _{dh}	x.x	kW
T _j =7°C	P _{dh}	x.x	kW
T _j =12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Declared Coefficient of performance* for Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	COPd	x.x	-
T _j =2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Operating limit temperature			
heating / Average	Tol	-10	°C
heating / Warmer	Tol	x	°C
heating / Colder	Tol	x	°C
Cycling interval efficiency			
for cooling	EEReye	x.x	-
for heating	COPEye	x.x	-
Degradation heating**			
cooling	co-efficient C _{dc}	0.25	-
heating	co-efficient C _{dh}	0.25	-
Annual electricity consumption			
cooling	Q _{CE}	149	kWh/a
heating / Average	Q _{HE}	1179	kWh/a
heating / Warmer	Q _{HE}	X	kWh/a
heating / Colder	Q _{HE}	X	kWh/a
Other items			
Sound (indoor/outdoor)	power level L _{WA}	58 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq
Rated air flow (indoor/outdoor)	-	720 / 1980	m ³ /h
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Contact details for obtaining more information			
Christiana PAPAZAHARIOU Internal communicator - Energy & environment regulations expert LG Electronics Paris Nord II - 117 avenue des Nations BP 59372 Villepinte - 95942 Roissy CDG Cedex chris.papazahariou@lge.com Tel. +33 1 49 89 57 41 / +33 6 83 077 455			
* For staged capacity units, two values divided by a slash (/) will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COP" of the unit. ** If default Cd=0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			



Life's Good

Models : US-W126H4A0(E12EL), US-W126HSA0(Z12SL)

Outdoor unit Indoor unit
E12EL UA3 / E12EL NSH
E12EL UA3 / Z12SL NSH

Function (indicate if present)		Indoor unit	
cooling	Y		
heating	Y		
Item	symbol	value	unit
Design load	Pdesignc	3.5	kW
	Pdesignh	3.2	kW
	Pdesignh	x.x	kW
	Pdesignh	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	3.5	kW
Tj=30°C	Pdc	2.6	kW
Tj=25°C	Pdc	1.6	kW
Tj=20°C	Pdc	1.2	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	Pdh	2.8	kW
Tj=2°C	Pdh	1.7	kW
Tj=7°C	Pdh	1.1	kW
Tj=12°C	Pdh	1.2	kW
Tj=bivalent temperature	Pdh	3.2	kW
Tj=operating limit	Pdh	3.1	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	x.x	kW
Tj=7°C	Pdh	x.x	kW
Tj=12°C	Pdh	x.x	kW
Tj=bivalent temperature	Pdh	x.x	kW
Tj=operating limit	Pdh	x.x	kW
If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season 'Average'.			
Average (mandatory)	Y		
Warmer (if designated)	N		
Colder (if designated)	N		
Item	symbol	value	unit
Seasonal efficiency	SEER	5.8	-
	SCOP/A	3.8	-
	SCOP/W	x.x	-
	SCOP/C	x.x	-
Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	EERd	3.1	-
Tj=30°C	EERd	5.0	-
Tj=25°C	EERd	7.5	-
Tj=20°C	EERd	10.2	-
Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	COPd	2.5	-
Tj=2°C	COPd	3.9	-
Tj=7°C	COPd	5.0	-
Tj=12°C	COPd	5.5	-
Tj=bivalent temperature	COPd	2.5	-
Tj=operating limit	COPd	2.4	-
Declared Coefficient of performance* / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	COPd	x.x	-
Tj=7°C	COPd	x.x	-
Tj=12°C	COPd	x.x	-
Tj=bivalent temperature	COPd	x.x	-
Tj=operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	Pdh	x.x	kW
Tj=2°C	Pdh	x.x	kW
Tj=7°C	Pdh	x.x	kW
Tj=12°C	Pdh	x.x	kW
Tj=bivalent temperature	Pdh	x.x	kW
Tj=operating limit	Pdh	x.x	kW
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	Pdh	x.x	kW
Tj=2°C	Pdh	x.x	kW
Tj=7°C	Pdh	x.x	kW
Tj=12°C	Pdh	x.x	kW
Tj=bivalent temperature	Pdh	x.x	kW
Tj=operating limit	Pdh	x.x	kW
Declared Coefficient of performance* / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	COPd	x.x	-
Tj=2°C	COPd	x.x	-
Tj=7°C	COPd	x.x	-
Tj=12°C	COPd	x.x	-
Tj=bivalent temperature	COPd	x.x	-
Tj=operating limit	COPd	x.x	-
Operating limit temperature			
heating / Average	Tol	10	°C
heating / Warmer	Tol	x	°C
heating / Colder	Tol	x	°C
Cycling interval efficiency			
for cooling	EEReye	x.x	-
for heating	COPeye	x.x	-
Degradation heating**			
co-efficient Cdh		0.25	-
Annual electricity consumption			
cooling	Qce	211	kWh/a
heating / Average	Qhe	1400	kWh/a
heating / Warmer	Qhe	x	kWh/a
heating / Colder	Qhe	x	kWh/a
Other items			
Sound (indoor/outdoor)	level LWA	58/65	dB(A)
Global warming potential	GWP	1975	kgCO2 eq
Rated air flow (indoor/outdoor)		720/1980	m3/h
Contact details for obtaining more information			
Christiana PAPAZAHARIOU Internal communicator - Energy & environment regulations expert LG Electronics Paris Nord II - 117 avenue des Nations BP 59372 Villepinte - 95942 Roissy CDG Cedex chris.papazahariou@lge.com Tel. +33 1 49 89 57 41, +33 6 83 077 455			
* = For staged capacity units, two values divided by a slash (/) will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COP" of the unit. ** = If default Cdh=0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			

Model : AS-W096NRR0(A09LL)

Outdoor unit Indoor unit
A09LL UL2 / A09LL NSN

Function (indicate if present)			
cooling	Y		
heating	Y		
Item	symbol	value	unit
Design load			
cooling	P _{designc}	2.5	kW
heating / Average	P _{designh}	3.2	kW
heating / Warmer	P _{designh}	x.x	kW
heating / Colder	P _{designh}	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	P _{dc}	3.5	kW
Tj=30°C	P _{dc}	1.8	kW
Tj=25°C	P _{dc}	1.3	kW
Tj=20°C	P _{dc}	1.3	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	P _{dh}	2.5	kW
Tj=-2°C	P _{dh}	1.5	kW
Tj=7°C	P _{dh}	1.2	kW
Tj=12°C	P _{dh}	1.3	kW
Tj=bivalent temperature	P _{dh}	2.7	kW
Tj=operating limit	P _{dh}	3.0	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	P _{dh}	x.x	kW
Tj=7°C	P _{dh}	x.x	kW
Tj=12°C	P _{dh}	x.x	kW
Tj=bivalent temperature	P _{dh}	x.x	kW
Tj=operating limit	P _{dh}	x.x	kW
Declared Coefficient of performance* / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	COP _d	x.x	-
Tj=7°C	COP _d	x.x	-
Tj=12°C	COP _d	x.x	-
Tj=bivalent temperature	COP _d	x.x	-
Tj=operating limit	COP _d	x.x	-
Declared Coefficient of performance* / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	COP _d	x.x	-
Tj=-2°C	COP _d	x.x	-
Tj=7°C	COP _d	x.x	-
Tj=12°C	COP _d	x.x	-
Tj=bivalent temperature	COP _d	x.x	-
Tj=operating limit	COP _d	x.x	-
Operating limit temperature			
heating / Average	Tol	-10	°C
heating / Warmer	Tol	x	°C
heating / Colder	Tol	x	°C
Cycling interval efficiency			
for cooling	EEReye	x.x	-
for heating	COPeye	x.x	-
Degradation heating**			
co-efficient C _{dc}	0.25	-	-
Electric power input in power modes other than 'active mode'			
off mode	P _{OFF}	0	kW
standby mode	P _{SB}	0.001	kW
thermostat-off mode	P _{TO}	0.013	kW
crankcase heater mode	P _{CK}	0	kW
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Capacity control (indicate one of three options)			
fixed	N		
staged	N		
variable	Y		
Other items			
Sound (indoor/outdoor)	power level L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	840	m ³ /h
Annual electricity consumption			
cooling	Q _{CE}	142	kWh/a
heating / Average	Q _{HE}	1120	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / C			

Model : AS-W126NRR0(A12LL)

Outdoor unit Indoor unit
A12LL UL2 / A12LL NSN

Function (indicate if present)		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	N
		Colder (if designated)	N
Item	symbol	value	unit
Design load	Pdesignc	3.5	kW
	Pdesignh	3.5	kW
	Pdesignh	x.x	kW
	Pdesignh	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	3.5	kW
Tj=30°C	Pdc	2.6	kW
Tj=25°C	Pdc	1.6	kW
Tj=20°C	Pdc	1.3	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Td			
Tj=7°C	Pdh	3.2	kW
Tj=2°C	Pdh	1.7	kW
Tj=7°C	Pdh	1.2	kW
Tj=12°C	Pdh	1.3	kW
Tj=bivalent temperature	Pdh	3.4	kW
Tj=operating limit	Pdh	3.3	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	x.x	kW
Tj=7°C	Pdh	x.x	kW
Tj=12°C	Pdh	x.x	kW
Tj=bivalent temperature	Pdh	x.x	kW
Tj=operating limit	Pdh	x.x	kW
If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
Average (mandatory)	Y		
Warmer (if designated)	N		
Colder (if designated)	N		
Item	symbol	value	unit
Seasonal efficiency	SEER	6.4	-
	SCOP/A	4.0	-
	SCOP/W	x.x	-
	SCOP/C	x.x	-
Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	EERd	3.72	-
Tj=30°C	EERd	5.6	-
Tj=25°C	EERd	8.8	-
Tj=20°C	EERd	8.7	-
Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	COPd	2.5	-
Tj=2°C	COPd	4.0	-
Tj=7°C	COPd	5.0	-
Tj=12°C	COPd	6.3	-
Tj=bivalent temperature	COPd	2.6	-
Tj=operating limit	COPd	2.4	-
Declared Coefficient of performance* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	COPd	x.x	-
Tj=7°C	COPd	x.x	-
Tj=12°C	COPd	x.x	-
Tj=bivalent temperature	COPd	x.x	-
Tj=operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	Pdh	x.x	kW
Tj=2°C	Pdh	x.x	kW
Tj=7°C	Pdh	x.x	kW
Tj=12°C	Pdh	x.x	kW
Tj=bivalent temperature	Pdh	x.x	kW
Tj=operating limit	Pdh	x.x	kW
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	Pdh	x.x	kW
Tj=2°C	Pdh	x.x	kW
Tj=7°C	Pdh	x.x	kW
Tj=12°C	Pdh	x.x	kW
Tj=bivalent temperature	Pdh	x.x	kW
Tj=operating limit	Pdh	x.x	kW
Declared Coefficient of performance* / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	COPd	x.x	-
Tj=2°C	COPd	x.x	-
Tj=7°C	COPd	x.x	-
Tj=12°C	COPd	x.x	-
Tj=bivalent temperature	COPd	x.x	-
Tj=operating limit	COPd	x.x	-
Operating limit temperature			
heating / Average	Tol	-10	°C
heating / Warmer	Tol	x	°C
heating / Colder	Tol	x	°C
Cycling interval efficiency			
for cooling	EERcyc	x.x	-
for heating	COPEyc	x.x	-
Degradation heating**			
co-efficient Cdh		0.25	-
Annual electricity consumption			
cooling	Qce	190	kW/h/a
heating / Average	Qhe	1350	kW/h/a
heating / Warmer	Qhe	x	kW/h/a
heating / Colder	Qhe	x	kW/h/a
Other items			
Sound (indoor/outdoor)	power level LWA	60/65	dB(A)
Global warming potential	GWP	1975	kgCO2 eq
Rated air flow (indoor/outdoor)		840/1980	m3/h
Contact details for obtaining more information			
Christiana PAPAZAHARIOU Internal communications LG Electronics Paris Nord II – 117 avenue des Nations BP 59372 Villepinte – 95942 Roissy CDG Cedex chris.papazahariou@lge.com Tel. +33 1 49 89 57 41 - +33 6 83 077 455			
* For staged capacity units, two values divided by a slash (/) will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COP" of the unit. ** If default Cdh=0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			

Models : AS-W1862WR0(D18RL), AS-W1862EF0(P18EL)

Outdoor unit Indoor unit
P18EL UL2 / P18EL NS2
D18RL UL2 / D18RL NS2

Function (indicate if present)		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	N
		Colder (if designated)	N
Item	symbol	value	unit
Design load			
cooling	P _{designc}	5.0	kW
heating / Average	P _{designh}	4.1	kW
heating / Warmer	P _{designh}	x.x	kW
heating / Colder	P _{designh}	x.x	kW
Seasonal efficiency			
cooling	SEER	6.1	-
heating / Average	SCOP/A	4.0	-
heating / Warmer	SCOP/W	x.x	-
heating / Colder	SCOP/C	x.x	-
Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	P _{dc}	5.0	kW
Tj=30°C	P _{dc}	3.7	kW
Tj=25°C	P _{dc}	2.4	kW
Tj=20°C	P _{dc}	1.1	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	P _{dh}	4.1	kW
Tj=2°C	P _{dh}	2.5	kW
Tj=7°C	P _{dh}	1.6	kW
Tj=12°C	P _{dh}	0.7	kW
Tj=bivalent temperature	P _{dh}	4.6	kW
Tj=operating limit	P _{dh}	4.1	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	P _{dh}	x.x	kW
Tj=7°C	P _{dh}	x.x	kW
Tj=12°C	P _{dh}	x.x	kW
Tj=bivalent temperature	P _{dh}	x.x	kW
Tj=operating limit	P _{dh}	x.x	kW
Declared Coefficient of performance* / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	COPd	x.x	-
Tj=2°C	COPd	x.x	-
Tj=7°C	COPd	x.x	-
Tj=12°C	COPd	x.x	-
Tj=bivalent temperature	COPd	x.x	-
Tj=operating limit	COPd	x.x	-
Declared Coefficient of performance* / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	COPd	x.x	-
Tj=7°C	COPd	x.x	-
Tj=12°C	COPd	x.x	-
Tj=bivalent temperature	COPd	x.x	-
Tj=operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	P _{dh}	x.x	kW
Tj=2°C	P _{dh}	x.x	kW
Tj=7°C	P _{dh}	x.x	kW
Tj=12°C	P _{dh}	x.x	kW
Tj=bivalent temperature	P _{dh}	x.x	kW
Tj=operating limit	P _{dh}	x.x	kW
Declared Coefficient of performance* / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=7°C	COPd	x.x	-
Tj=2°C	COPd	x.x	-
Tj=7°C	COPd	x.x	-
Tj=12°C	COPd	x.x	-
Tj=bivalent temperature	COPd	x.x	-
Tj=operating limit	COPd	x.x	-
Operating limit temperature heating / Average heating / Warmer heating / Colder heating			
Tol	°C	-10	°C
Tol	°C	x	°C
Tol	°C	x	°C
Cycling interval efficiency for cooling for heating			
EEReye	x.x	-	-
COPeye	x.x	-	-
Degradation heating**			
co-efficient C _{dh}	0.25	-	-
Annual electricity consumption			
cooling	Q _{CE}	287	kWh/a
heating / Average	Q _{HE}	1435	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Other items			
Sound (indoor/outdoor)	level L _{WA}	60/65	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq
Rated air flow (indoor/outdoor)	-	1084/1528	m ³ /h
Contact details for obtaining more information			
Christiana PAPAZAHARIOU Internal communicator - Energy & environment regulations expert LG Electronics Paris Nord II - 117 avenue des Nations BP 59372 Villepinte - 95542 Roissy CDG Cedex chris.papazahariou@lge.com Tel. +33 1 49 89 57 41, +33 6 83 077 455			
*For staged capacity units, two values divided by a slash (/) will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COP" of the unit.			
**If default C _{dh} =0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			

Models : AS-W2462WR0(D24RL), AS-W2462EF0(P24EL)

Outdoor unit Indoor unit
P24EL UL2 / P24EL NS2
D24RL UL2 / D24RL NS2

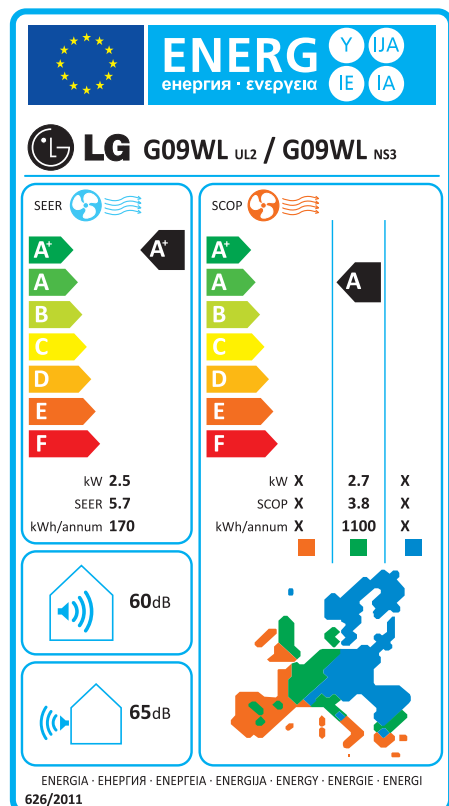
Function (indicate if present)		If function includes heating: Indicate the heating season in the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	N
		Colder (if designated)	N
Item	symbol	value	unit
Design load			
cooling	P _{designh}	6.8	kW
heating / Average	P _{designh}	5.5	kW
heating / Warmer	P _{designh}	x.x	kW
heating / Colder	P _{designh}	x.x	kW
Declared capacity* for cooling, at indoor temperature 27(19) °C and outdoor temperature T_j			
T _j =35°C	P _{dc}	6.8	kW
T _j =30°C	P _{dc}	5.0	kW
T _j =25°C	P _{dc}	3.2	kW
T _j =20°C	P _{dc}	1.4	kW
Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	P _{dh}	5.5	kW
T _j =2°C	P _{dh}	3.3	kW
T _j =7°C	P _{dh}	2.1	kW
T _j =12°C	P _{dh}	0.9	kW
T _j =bivalent temperature	P _{dh}	6.2	kW
T _j =operating limit	P _{dh}	5.5	kW
Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =2°C	P _{dh}	x.x	kW
T _j =7°C	P _{dh}	x.x	kW
T _j =12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Seasonal efficiency			
cooling	SEER	6.1	-
heating / Average	SCOP/A	3.8	-
heating / Warmer	SCOP/W	x.x	-
heating / Colder	SCOP/C	x.x	-
Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature T_j			
T _j =35°C	EERd	3.0	-
T _j =30°C	EERd	4.6	-
T _j =25°C	EERd	7.3	-
T _j =20°C	EERd	12.0	-
Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	COPd	2.6	-
T _j =2°C	COPd	3.8	-
T _j =7°C	COPd	4.5	-
T _j =12°C	COPd	5.5	-
T _j =bivalent temperature	COPd	2.4	-
T _j =operating limit	COPd	2.6	-
Declared Coefficient of performance* / Warmer climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	P _{dh}	x.x	kW
T _j =2°C	P _{dh}	x.x	kW
T _j =7°C	P _{dh}	x.x	kW
T _j =12°C	P _{dh}	x.x	kW
T _j =bivalent temperature	P _{dh}	x.x	kW
T _j =operating limit	P _{dh}	x.x	kW
Declared Coefficient of performance* / Colder climate, at indoor temperature 20°C and outdoor temperature T_j			
T _j =7°C	COPd	x.x	-
T _j =2°C	COPd	x.x	-
T _j =7°C	COPd	x.x	-
T _j =12°C	COPd	x.x	-
T _j =bivalent temperature	COPd	x.x	-
T _j =operating limit	COPd	x.x	-
Operating limit temperature heating / Warmer heating / Colder heating			
Tol	-10	°C	
Cycling interval efficiency for cooling for heating			
EEReye	x.x	-	
COPeye	x.x	-	
Degradation co-efficient heating* C_{dh}			
*	0.25	-	
Annual electricity consumption			
cooling	Q _{CE}	391	kWh/a
heating / Average	Q _{HE}	2027	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a
Other items			
Sound power level (indoor/outdoor)	L _{WA}	65/70	dB(A)
Global warming potential	GWP	1975	kgCO ₂ eq
Rated air flow (indoor/outdoor)	-	1356/2388	m ³ /h
Contact details for obtaining more information			
Christiana PAPAZAHARIOU Internal communicator - Energy & environment regulations expert LG Electronics Paris Nord II - 117 avenue des Nations BP 59372 Villepinte - 95942 Roissy CDG Cedex chris.papazahariou@lge.com Tel. +33 1 49 89 57 41, +33 6 83 077 455			
= For staged capacity units, two values divided by a slash (/) will be declared in each box in the section "Declared capacity of the unit" and "declared EER/COP" of the unit. *= If default C _{dh} =0.25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.			

15. Energy label

• Labelling Efficiency

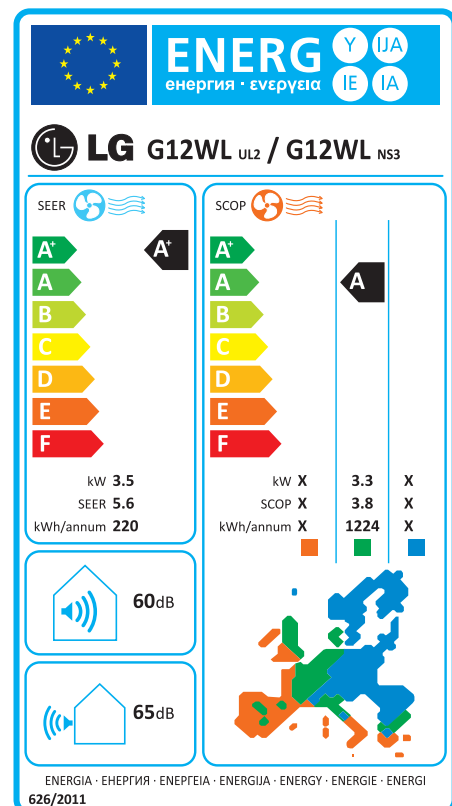
Energy Efficiency Class	Split and Window systems	
	SEER	SCOP
A+++	SEER \geq 8.5	SCOP \geq 5.1
A++	$6.1 \leq \text{SEER} < 8.5$	$4.6 \leq \text{SCOP} < 5.1$
A+	$5.6 \leq \text{SEER} < 6.1$	$4.0 \leq \text{SCOP} < 4.6$
A	$5.1 \leq \text{SEER} < 5.6$	$3.4 \leq \text{SCOP} < 4.0$
B	$4.6 \leq \text{SEER} < 5.1$	$3.1 \leq \text{SCOP} < 3.4$
C	$4.1 \leq \text{SEER} < 4.6$	$2.8 \leq \text{SCOP} < 3.1$
D	$3.6 \leq \text{SEER} < 4.1$	$2.5 \leq \text{SCOP} < 2.8$
E	$3.1 \leq \text{SEER} < 3.6$	$2.2 \leq \text{SCOP} < 2.5$
F	$2.6 \leq \text{SEER} < 3.1$	$1.9 \leq \text{SCOP} < 2.2$
G	SEER < 2.6	SCOP < 1.9

AS-W0963WB0(G09WL))



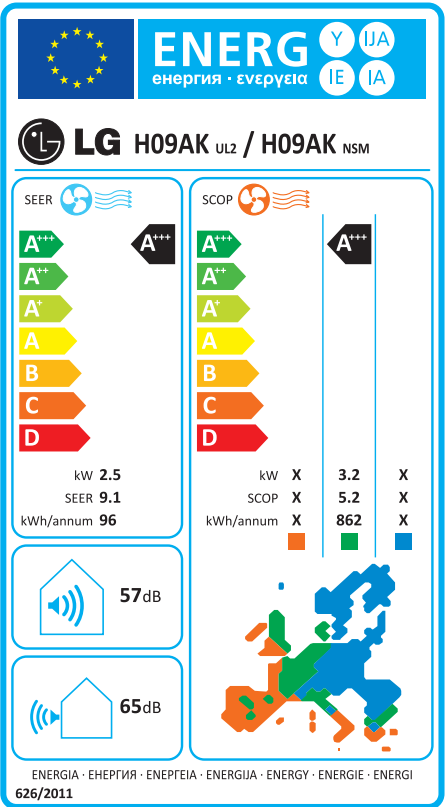
MEZ64837621

AS-W1263WB0(G12WL)

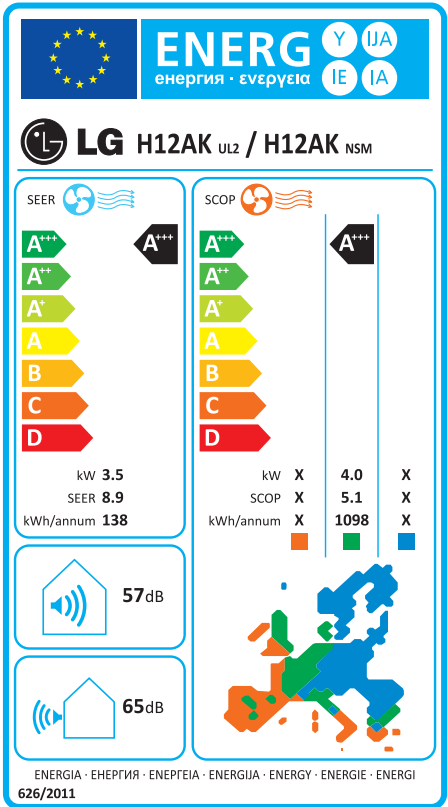


MEZ64837611

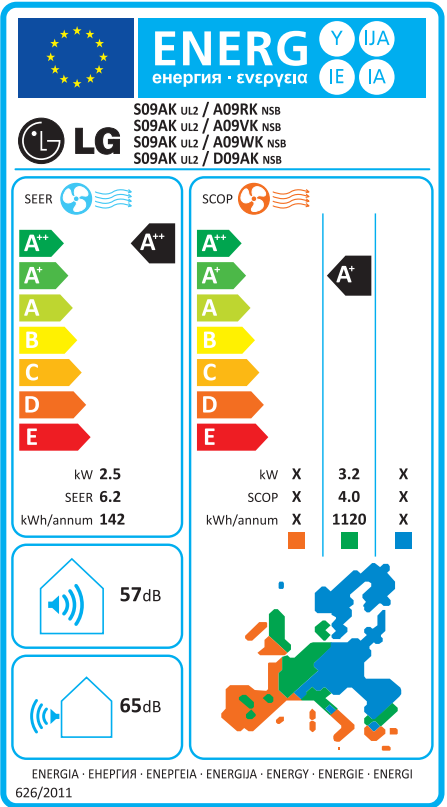
AS-W096MMS3(H09AK)



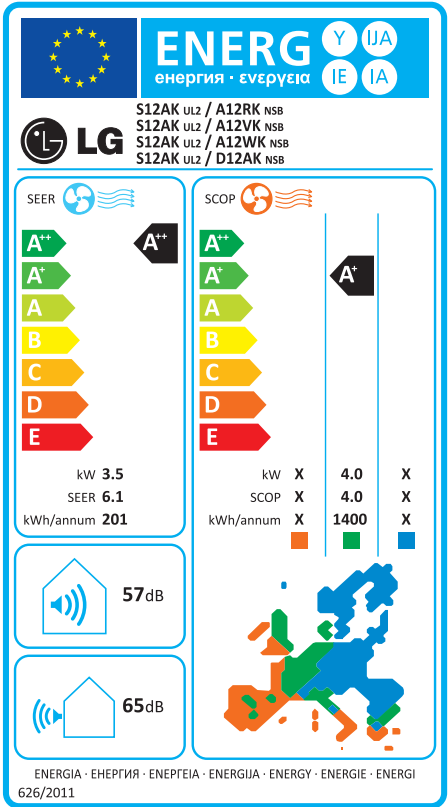
AS-W126MMS3(H12AK)



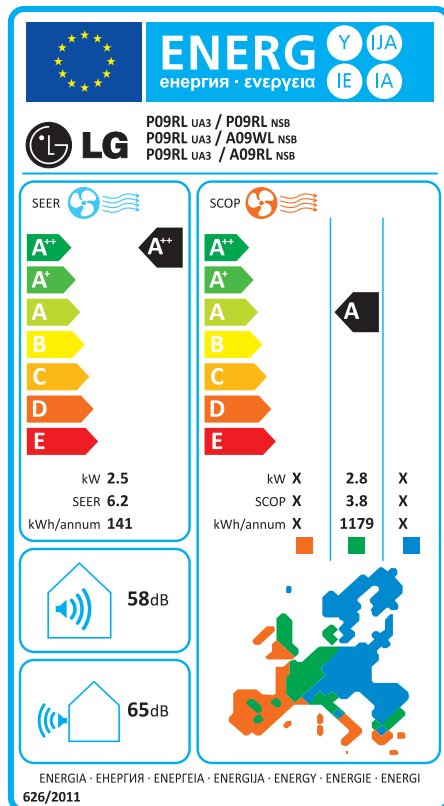
AS-W096BNR3(D09AK)



AS-W126BNR3(D12AK)

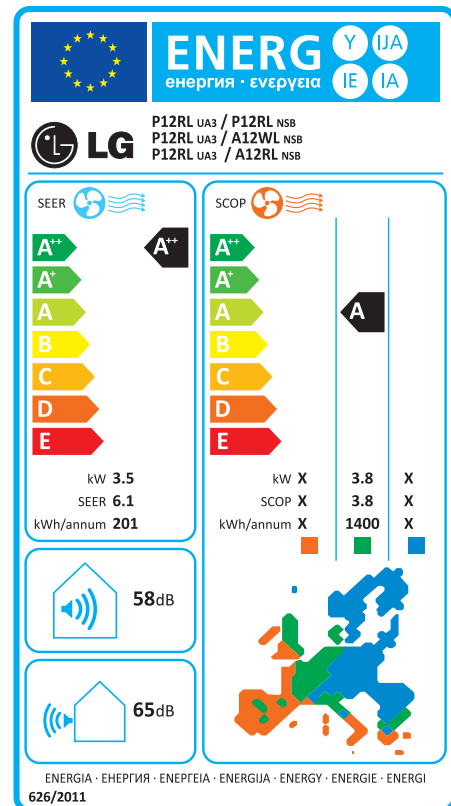


AS-W096BWR4(A09WL)
AS-W096BRR4(A09RL)
US-W096B8F0(P09RL)



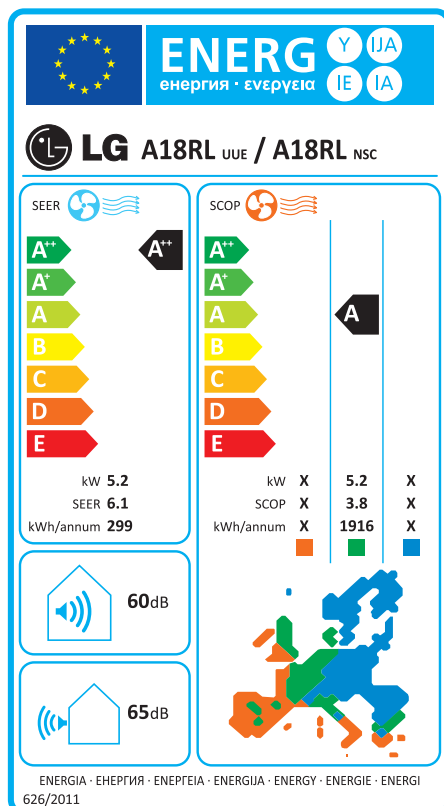
MEZ64824022

AS-W126BWR4(A09WL)
AS-W126BRR4(A09RL)
US-W126B8F0(P12RL)



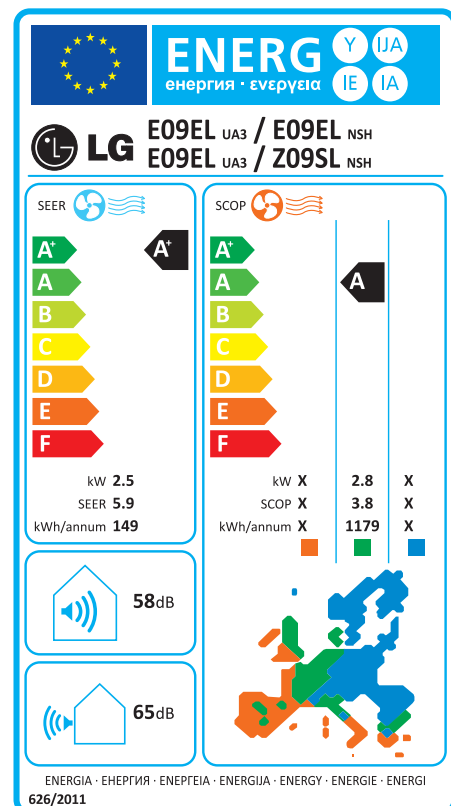
MEZ64824017

AS-W186CRR4(A18RL)



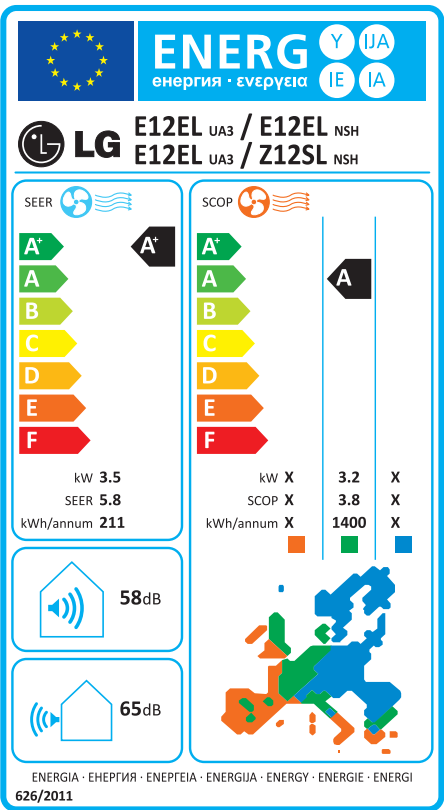
MEZ64837612

US-W096H4A0(E09EL)
US-W096HSA0(Z09SL)



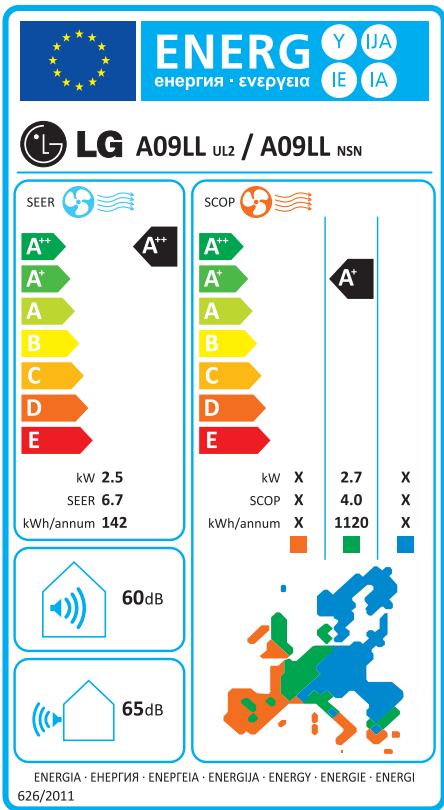
MEZ64824023

US-W126H4A0(E12EL)
US-W126HSA0(Z12SL)



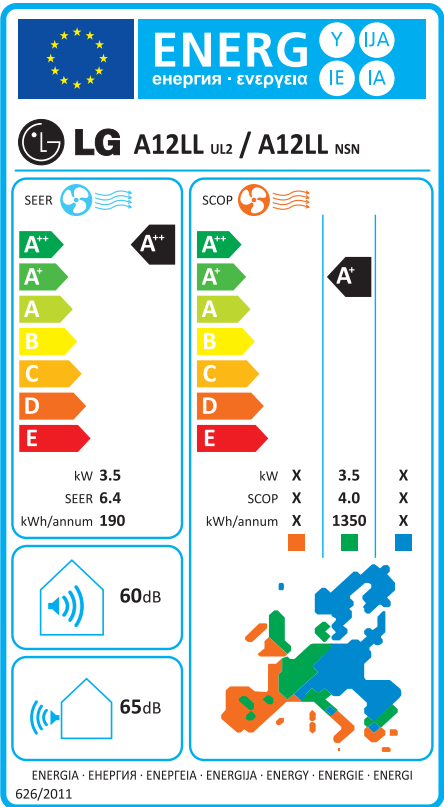
MEZ64824021

AS-W096NRR0(A09LL)



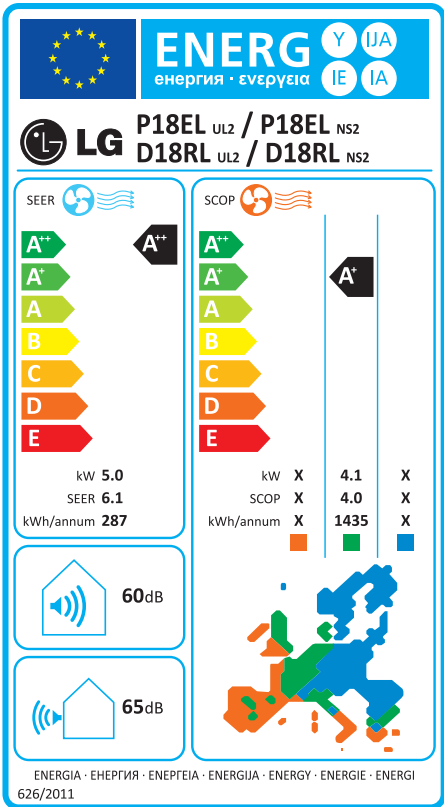
MEZ64837620

AS-W126NRR0(A12LL)

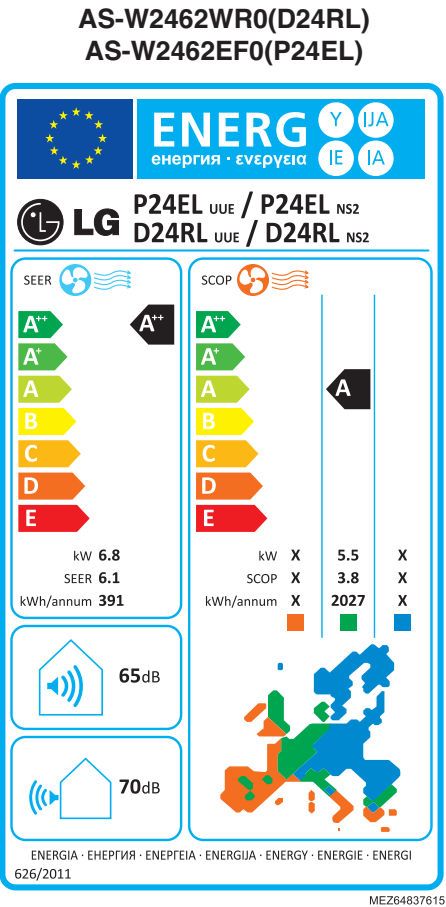


MEZ64837619

AS-W1862WR0(D18RL)
AS-W1862EF0(P18EL)



MEZ64837618



Test Condition

Temp. condition	Cooling Test	Heating Test (Average)	Heating Test (Warmer)	Heating Test (Colder)
Tdesign temp.	Tdesignc 27(19)/35(24)	Tdesignh 20(15)/ -10(-11)	Tdesignh 20(15)/ 2(1)	Tdesignh 20(15)/-22 (-23)
A	27(19) / 35(24)	20(15) / -7(-8)	N.A.	20(15) / -7(-8)
B	27(19) / 30(*)	20(15) / 2(1)	20(15) / 2(1)	20(15) / 2(1)
C	27(19) / 25(*)	20(15) / 7(6)	20(15) / 7(6)	20(15) / 7(6)
D	27(19) / 20(*)	20(15) / 12(11)	20(15) / 12(11)	20(15) / 12(11)
E	N.A.	Tol (max -7 ↓)	Tol (max 2 ↓)	Tol (max -15 ↓)
F	N.A.	Tbivalent (max 2 ↓)	Tbivalent (max 7 ↓)	Tbivalent (max -7 ↓)

Indoor D.B(W.B)/ Outdoor D.B(W.B) : [unit : °C]



P/No.: MFL66305320



Air Conditioner

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The air conditioners manufactured by LG have received ISO9001 certificate for
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